Welcome

This guide details our progressive programme of activities that we offer to students and staff in schools and colleges nationally.

Over the last 20 years, we have worked with teachers, our students and graduates to develop a range of informative and interactive activities. These ensure that your students understand what higher education can offer them and are thoroughly prepared for the transition to university.

Our subject-specific activities support the curriculum and offer an interactive and enriching learning experience for your students throughout each educational stage.

We want our activities to be as flexible as possible and can work with you to build a custom activity to help your students learn about the topics that are important to them.
Events Workshops Resources

We offer fun, interactive and informative activities for year 5–13, which will:

- introduce students to university life and the range of subjects available to study
- allow students to explore different subjects in detail working with current students and academics
- provide relevant information at key decision-making times to ensure students can make an informed decision about their future
- inform students of the kinds of skills they will need to be successful at university
- improve students’ motivation to work harder to reach their educational goals
- increase students’ confidence in their ability to apply to university

HOW TO BOOK

Visit our website at www.ncl.ac.uk/schools
Or email outreach@ncl.ac.uk
The journey...

Newcastle University offers a progressive programme of activities that your students can continually engage with throughout their education to raise aspirations and support progression.

Throughout the programme, you have the option for our graduate ambassadors to travel to you and deliver a range of activities in school, or for students to come and visit us on campus. There are also intensive, residential events included at key transitional points to give your students the opportunity to stay in University accommodation, take part in subject taster sessions with academics, spend time on campus and engage with current students.

Connect with us...

www.ncl.ac.uk/schools
outreach@ncl.ac.uk
www.facebook.com/newcastleuniversity
www.twitter.com/uniofnewcastle
www.instagram.com/newcastleuni/
We regularly review our programme of activities in order to adapt to the needs of you and your students. Here are all the new activities for this year and where to find out more information.

**360° Exploring University:**
- Degree Discovery page 18

**On Campus:**
- Head Start to HE page 34

**Humanities and Social Sciences (HaSS):**
- Politics session, ‘Coalition Chaos’ page 42
- Applying to Law page 42
- The Trading Game page 42

**Medical Sciences:**
- The Brain Game page 61

**Science, Technology, Engineering and Maths (STEM):**
- Chemistry of the Senses page 68
- Colourful Chemistry page 68
- Coral Reefs of the UK and Ireland page 69
- The North East Rocks! page 69
- Earthquakes on Mars: Marsquakes page 69
- Spectroscopy in a Suitcase page 71
- Chemistry in Your Shopping Basket page 73
- It’s Elementary, My Dear Watson! page 74
- Pitch Perfect page 78
- An Introduction to GIS page 78
- Exploring the Physics behind GPS page 78

This is just a selection of the activities we offer. Have a look through this booklet to see our full range and put together the progressive programme that is most effective for your students.
Key Outcomes

We want to help you plan your time and resources effectively. All of our activities are designed to support schools and colleges with the delivery of Gatsby Benchmarks, the Career Development Institute Framework and the National Curriculum.

Supports Gatsby Benchmarks (GB):
2. Learning from career and labour market information (LMI)
4. Linking curriculum learning to careers
5. Encounters with employers and employees
6. Experiences of workplaces
7. Encounters with further and higher education

Supports Career Development Institute Framework 2018 (CDIF):
3. Self-improvement as a learner
4. Exploring careers and career development
7. Investigating jobs and labour market information (LMI)
11. Preparing for employability
12. Showing initiative and enterprise
13. Developing personal financial capability
14. Identifying choices and opportunities
15. Planning and deciding
16. Handling applications and interviews
17. Managing changes and transitions
Supports the National Curriculum (NC):
Spiritual, Moral, Social and Cultural Development (SMSC)

**Spiritual:** Explore beliefs and experience; Enjoy learning about oneself and others; Use imagination and creativity; Reflect

**Moral:** Respect the law; Understand consequences; Offer reasoned views

**Social:** Use a range of social skills; Appreciate diverse viewpoints; Participate, volunteer and co-operate

**Cultural:** Understand, accept, respect and celebrate diversity

**Literacy and Numeracy**

**Literacy:** Present ideas; Write information; Vocabulary; Discuss and debate; Listening; Role play/improvise; Reading

**Numeracy:** Understand real costs; Work with numbers; Work with budgets; Explore scenarios; Make choices about money
PARTNERS

Do you have students with lots of potential but who might not apply to university due to family background or low income?

Newcastle University’s PARTNERS Programme can help. The programme is for students who are less likely to go to university because of their family background, low income or lack of access to information and support about universities and application.

www.ncl.ac.uk/partners

Did you know...

Over 4,000 students have successfully entered the University who might otherwise not have done.
See the difference PARTNERS can make, visit our website

www.ncl.ac.uk/partners

How can PARTNERS benefit your students?
The PARTNERS Programme provides students with the opportunity to:

• receive a lower conditional offer to Newcastle University
• visit Newcastle University and find out what it is really like
• make informed choices about higher education
• develop skills necessary to be successful at university
• meet other students and increase their confidence

Students must fulfil certain eligibility criteria in order to take part. Students can check their eligibility online at www.ncl.ac.uk/partners
Newcastle University
London

Our global gateway
Newcastle University London brings the best of Newcastle University to the UK’s capital city. Our campus, in the City of London, connects our world-class research to industry, government and the wider community.

Inspiration meets industry
Our students benefit from a unique style of industry immersive education. They work hand-in-hand with top companies to develop a strong academic background and the practical skills necessary to become global business leaders of the future.

Our support to you
Newcastle University London’s campus on the edge of London’s financial district, near Liverpool Street Station, provides the perfect base from which to engage with schools and colleges in London and the South of England. We can offer you tailor-made support, including a variety of engagement activities delivered by our team of leading academics and dedicated graduate ambassadors. In addition, we deliver a range of events from professional masterclasses to public lectures, and offer the opportunity for your students to take part in undergraduate lectures.

To find out more about how your school or college can engage with Newcastle University London to support your students in their journey to higher education, please contact outreachlondon@ncl.ac.uk

Degrees offered at Newcastle University London

Accounting and Finance BSc (Hons)
International Business Management BSc (Hons)
International Marketing and Management BSc (Hons)

For more information about Newcastle University London, please visit www.ncl.ac.uk/london
Introduction

Our global gateway

Newcastle University London brings the best of Newcastle University to the UK’s capital city. Our campus, in the City of London, connects our world-class research to industry, government and the wider community.

Inspiration meets industry

Our students benefit from a unique style of industry immersive education. They work hand-in-hand with top companies to develop a strong academic background and the practical skills necessary to become global business leaders of the future.

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- www.twitter.com/newcastleunildn
- www.instagram.com/newcastleunildn
Section one: Exploring University

Designed to inform your students about the benefits of higher education, how to choose the right course for them, the application process and how to develop key skills to help them at university.

360°

WORKSHOPS
Exploring University

Designed to inform your students about the benefits of higher education, how to choose the right course for them, the application process and how to develop key skills to help them at university.
### Overview

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</tbody>
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University life

*UPDATED for 2018/19*

Student Life

From Freshers’ Week to student finance, we’ve got it covered. This interactive session allows students to explore the topics that are most important to them, told from the perspective of recent graduates or current students. It includes videos and interactive activities covering all aspects of student life. You are able to tailor the presentation to your needs and select the sections you would like us to deliver.

**Type:** Interactive presentation

**Duration:** 30–60 minutes

**Year:** 12–13

**Key outcomes:**

- GB: 5, 7
- CDIF: 13, 14, 15, 16, 17
- NC: Social
- NC: Numeracy

**This session goes well with:**

- Study Skills (see page 17)
- PARTNERS Programme (see page 20)
- Writing your Personal Statement (see page 20)
- Student Finance (see page 21)

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The presentation was superb! The ambassadors pitched the lecture just right – the students warmed to them and built a rapport in the short time they were here. The fact that one of the ambassadors was a final year student and was able to describe his experiences and answer questions was particularly useful.

Teacher, Emmanuel College
University Articulate

A fast-paced game that tests students’ knowledge and understanding of university jargon. Students will gain an insight into courses, famous graduates, sports and societies and other aspects of student life.

**Type:** Interactive
**Duration:** 30 minutes
**Year:** 12–13

**Key outcomes:**
- GB: 7
- CDIF: 12, 15,
- NC: Spiritual
- NC: Social
- NC: Literacy

Newcastle University Challenge

Our quiz tests students on their general (university) knowledge, and what they don’t already know, they’ll learn more about. Separate quizzes are offered for year 12 and 13.

**Type:** Interactive
**Duration:** 30–45 minutes
**Year:** 12–13

**Key outcomes:**
- GB: 2, 5, 7
- CDIF: 7, 14, 16, 17
- NC: Spiritual
- NC: Social
Exploring University

University Articulate

A fast-paced test of students’ knowledge and understanding of university life. Students will gain an insight into courses, famous graduates, sports and societies and other aspects of student life.

Type: Interactive
Duration: 30 minutes
Year: 12–13

Key outcomes:
GB: 7
CDIF: 12, 15, NC: Spiritual, NC: Social

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Type: Interactive
Duration: 30–45 minutes
Year: 12–13

Key outcomes:
GB: 2, 5, 7
CDIF: 7, 14, 16, 17
NC: Spiritual, NC: Social
Why higher education?

The graduate ambassador was absolutely brilliant, she was able to impart the information in a way that my students appreciated. She was friendly and informative; it was clear she knew exactly what she was talking about.

Teacher, New College Swindon

Bright Futures

This session will broaden students' perception of what university can offer them, not only through study, but also through the university experience as a whole. It also highlights a range of transferable skills that university can develop and gives examples of graduate success stories.

Type: Presentation
Duration: 30 minutes
Year: 10–13

Key outcomes:
• GB: 2, 5, 7
• CDIF: 7, 13, 14, 15, 17

Funployment

An interactive game in which students work in a team to build up their CV with the skills required to gain a graduate job.

Type: Interactive
Duration: 45–60 minutes
Year: 12–13

Key outcomes:
• GB: 5, 6, 7
• CDIF: 3, 4, 11, 12
• NC: Spiritual
• NC: Social
• NC: Literacy
Welcome to the Toon!

Discover more about Newcastle University campus and life in the vibrant and friendly city of Newcastle upon Tyne in this fun session. Students will even learn some Geordie phrases!

**Type:** Interactive

**Duration:** 30 minutes

**Year:** 12–13

**Key outcomes:**

- GB: 2, 5, 7
- CDIF: 7, 12, 14, 16, 17
- NC: Social
- NC: Literacy

*UPDATED for 2018/19*

**Study Skills**

Our suite of flexible study skills activities and presentations is aimed at supporting students to prepare for life and study at university. Simply choose the study skills modules that best meet the needs of your students from the list below:

- Humanities v STEM v Medical Sciences. What are the main differences?
- Degree Discovery. Subject choices at school or college – where can they lead?
- Reading, recording and revision
- Research, critical analysis and concentration
- Support and wellbeing at Newcastle University

Study skills modules can be delivered in any combination or as stand-alone activities.

**Type:** Flexible

**Duration:** Flexible

**Year:** Flexible

**Key outcomes:**

- GB: 2, 5, 7
- CDIF: 7, 12, 14, 15, 16, 17
- NC: Literacy
Course choices

Which University?

Delivered as a presentation or as a game show inspired workshop, we put students head-to-head to find out who has (or hasn’t) done their university research. With useful websites, statistics and things to consider, this session will leave your students with plenty to ponder!

Type: Interactive/Presentation
Duration: 45 minutes
Year: 12–13

Key outcomes:
- GB: 2, 7
- CDIF: 7, 13, 14, 15, 17
- NC: Social

This session goes well with:
Degree Discovery
(see page 18)

*NEW for 2018/19*
Degree Discovery

Delivered as a fun, interactive workshop, students will explore how their subject choices at school or college can link to a wide variety of degree courses. Students will be left with a better understanding of the range of degree courses on offer and how they can lead to their preferred career.

Type: Interactive workshop
Duration: 45–60 minutes
Year: 11–13

Key outcomes:
- GB: 2, 5, 7
- CDIF: 7, 13, 14, 15, 16, 17
- NC: Social

The two ambassadors were outstanding, they really engaged with the students and the activity was pitched at the right level!

All of the students were on task and got a lot out of the activity – and it was all done in one hour; very well done!

Teacher, St Cuthbert’s Catholic High School

“
Section one: Exploring University

Course choices

Which University?

Delivered as a presentation or as a /gsaltame show inspired workshop, we put students head-to-head to find out who has (or hasn’t) done their university research. With useful websites, statistics and thin/gsalts to consider, this session will leave your students with plenty to ponder!

Type: Interactive/Presentation

Duration: 45 minutes

Year: 12–13

Key outcomes:

GB: 2, 7
CDIF: 7, 13, 14, 15, 17
NC: Social

This session goes well with:

Degree Discovery (see page 18)

*NEW for 2018/19*

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Delivered as a fun, interactive workshop, students will explore how their subject choices at school or colle/gsalte can link to a wide variety of degsalsree courses. Students will be left with a better understandin/gsalte of the range of degsalsree courses on offer and how they can lead to their preferred career.

Type: Interactive workshop

Duration: 45–60 minutes

Year: 11–13

Key outcomes:

GB: 2, 5, 7
CDIF: 7, 13, 14, 15, 16, 17
NC: Social

The two ambassadors were outstanding, they really engaged with the students and the activity was pitched at the right level!

All of the students were on task and got a lot out of the activity – and it was all done in one hour; very well done!

Teacher, St Cuthbert’s Catholic High School
Applying to University*

Essential information about the admissions process through UCAS and CUKAS. A 10-step guide to applying, some dos and don’ts, key deadlines and how best to research courses.

Type: Presentation
Duration: 30 minutes
Year: 12 and early 13

Key outcomes:
- GB: 2, 5, 7
- CDIF: 7, 13, 14, 15, 16, 17

Writing your Personal Statement*

Students will learn about structure, skills and standing out. We’ll share a few useful hints and tips before playing ‘Celebrity UCAS’, an activity that tests their creativity and wit when it comes to writing personal statements.

Type: Workshop
Duration: 30–45 minutes
Year: 12–13

Key outcomes:
- GB: 5, 6, 7
- CDIF: 3, 4, 11, 12
- NC: Spiritual
- NC: Literacy

*UPDATED for 2018/19* PARTNERS Programme**
[supported entry route]

The PARTNERS Programme supported entry route is Newcastle University’s access scheme. It offers a range of support and opportunities to eligible young people to help them make a successful application to Newcastle University. It explains what PARTNERS is, the eligibility criteria, what the benefits are for your students and how to apply.

Type: Presentation
Duration: 20–40 minutes
Year: 12 and early 13

Key outcomes:
- GB: 2, 5, 7
- CDIF: 7, 13, 14, 15, 16, 17

These sessions work well together and can be shortened to include all key information in the time frame available.

★★ Online presentation also available.
Money matters

Student Finance

A one-stop shop for information on student finance. Students will learn about the latest information regarding tuition fees, maintenance loans, bursaries, scholarships and loan repayments.

Type: Presentation
Duration: 30 minutes
Year: 12–13

Key outcomes:
- GB: 2, 5, 7
- CDIF: 7, 13, 14, 16, 17
- NC: Numeracy

This session goes well with:
- Student Life (see page 13)
- Budgeting Bonanza (see page 21)

Finance-opoly

Simulates the kind of income and expenditure students will experience during their time at university. Students will practise planning and managing their finances.

Type: Interactive
Duration: 45–60 minutes
Year: 12–13

Key outcomes:
- GB: 5, 7
- CDIF: 12, 13, 15, 17
- NC: Literacy
- NC: Numeracy

Budgeting Bonanza

A fast-moving activity in which students must use their decision-making skills to effectively balance the costs of studying and their social life.

Type: Interactive*
Duration: 45–60 minutes
Year: 12–13

Key outcomes:
- GB: 7
- CDIF: 13, 14, 15
- NC: Social
- NC: Numeracy

* Presentation version also available.
The budgeting activity, where students had to make decisions around how they would spend their student loan, was brilliant. I am really pleased that we opted to do this and the students found it really engaging. I enjoyed listening to their discussions and their personalities shone through as they reasoned about their decisions.

Teacher, Southmoor Academy

Year 5: Campus Explorers*

Take a trip to Newcastle University’s campus from the comfort of your classroom! Students can choose a route around campus and take part in fun games and activities relating to the buildings they visit!

Type: Workshop
Duration: 120 minutes

Key outcomes:
- GB: 5, 7
- CDIF: 16, 17
- NC: Spiritual

* This event is available on Fridays throughout the year depending on staff/resource availability.

Year 7–8: Universi-Tree

Rooted by GCSEs and branching out into degree courses, students will explore graduate careers in which they could blossom. You won’t be-leaf how many puns we’ve got in this interactive workshop!

Type: Workshop
Duration: 30–60 minutes

Key outcomes:
- GB: 5, 6, 7
- CDIF: 3, 4, 11, 17
- NC: Spiritual
- NC: Literacy
The budgeting activity, where students had to make decisions around how they would spend their student loan, was brilliant. I am really pleased that we opted to do this and the students found it really engaging. I enjoyed listening to their discussions and their personalities shone through as they reasoned about their decisions.

**Teacher, Southmoor Academy Year 5:**

**Campus Explorers**

Take a trip to Newcastle University’s campus from the comfort of your classroom! Students can choose a route around campus and take part in fun activities related to the buildings they visit!

**Type:** Workshop

**Duration:** 120 minutes

**Key outcomes:**

- **GB:** 5, 7
- **CDIF:** 16, 17
- **NC:** Spiritual

*This event is available on Fridays throughout the year depending on staff/resource availability.*

**Year 7–8:**

**Student Suitcase**

Our bags are packed for university and we’re bringing them to your classroom! Each of our 10 essential student items links to a different aspect of undergraduate life and how students prioritise their weekly budget.

**Type:** Workshop

**Duration:** 45–60 minutes

**Key outcomes:**

- **GB:** 5, 7
- **CDIF:** 13, 15, 17
- **NC:** Numeracy

**Year 7–9:**

**HE: An Investigation**

Cryptic clues, secret symbols and quiz questions allow students to learn about different aspects of higher education.

**Type:** Workshop

**Duration:** 30–60 minutes

**Key outcomes:**

- **GB:** 2, 5, 7
- **CDIF:** 7, 14, 16, 17

**Year 7–8:**

**Student Fortunes**

What’s the best thing about university? Which are the most popular subjects? Where do students spend their time? Students will compete for points and prizes as they find out what our survey said!

**Type:** Workshop

**Duration:** 45 minutes

**Key outcomes:**

- **GB:** 5, 7
- **CDIF:** 15, 16, 17
- **NC:** Spiritual
- **NC:** Literacy
Year 5–11 activities

Year 10–11: ACE on Tour*

ACE has been one of our most popular on-campus events for over 10 years and now we’re bringing it to your school, complete with current Newcastle University students.

Your students will gain an insight into life as an undergraduate from current Newcastle University students through a range of interactive games and workshops. This event includes a range of different topics such as:

- the pros and cons of higher education
- student accommodation
- student societies
- study skills

Type: Flexible

Duration: Flexible (from 2 hours to full day)

Key outcomes:

- GB: 5, 7
- CDIF: 15, 16, 17
- NC: Spiritual
- NC: Literacy

★ This activity is based around the ACE On Campus event and so there would be limited value in booking both of these activities for your students.

From a teaching perspective, it was brilliant to see, even in such a short period of time, the impact your visit made on our students’ aspirations. Many of them now want to visit Newcastle and venture outside of London!

Teacher, Bishop Challoner Catholic Federation of Schools
ACE has been one of our most popular on-campus events for over 10 years and now we're bringing it to your school, complete with current Newcastle University students.

Your students will gain an insight into life as an undergraduate from current Newcastle University students through a range of interactive games and workshops.

This event includes a range of different topics such as:

• the pros and cons of higher education
• student accommodation
• student societies
• study skills

Type: Flexible
Duration: Flexible (from 2 hours to full day)

Key outcomes:

GB: 5, 7
CDIF: 15, 16, 17
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Teacher, Bishop Challoner Catholic Federation of Schools
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<tr>
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<tr>
<td>Night at the Museum</td>
<td>8</td>
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<tr>
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<tr>
<td>Investigate Your Future</td>
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<tr>
<td>ACE Days</td>
<td>10</td>
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</tr>
<tr>
<td>University Survival Guide</td>
<td>10</td>
<td>Residential</td>
<td>3 days / 2 nights</td>
</tr>
<tr>
<td><strong>Year 11</strong></td>
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<tr>
<td>Inspired Choices</td>
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<tr>
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<tr>
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<tr>
<td>Open Days</td>
<td>12–13</td>
<td>Visit</td>
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<td><strong>Year 13</strong></td>
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<tr>
<td><em>NEW for 2018/19</em> Head Start to HE</td>
<td>13</td>
<td>Visit</td>
<td>180 mins</td>
</tr>
<tr>
<td>Accommodation Tours</td>
<td>13</td>
<td>Visit</td>
<td>60 mins</td>
</tr>
</tbody>
</table>
Events

Year 6: University Safari

Take a walk on the wild side and bring your students on an expedition to Newcastle University! Students will take part in a range of interactive sessions and are assisted by current University students throughout the day as their ‘Student Safari’ guides!

**Dates:** 19, 20 and 22, 23 November 2018; 11–15 February 2019

**Duration:** 1 day event, 10.00am–2.30pm

**Key outcomes:**
- GB: 5, 7
- CDIF: 16, 17
- NC: Spiritual

Year 7: UniVenture

Bring your year 7 pupils on an adventure to Newcastle University! UniVenture is an opportunity for your pupils to take part in a range of fun, interactive and educational sessions assisted by current University students.

**Dates:** 26 and 28 February 2019 and 10–11 June 2019

**Duration:** 1 day event, 9.30am–2.30pm

**Key outcomes:**
- GB: 5, 7
- CDIF: 16, 17

Year 8: Night at the Museum*

An overnight stay at Great North Museum: Hancock designed to inspire students to think about their future in a fun and interactive way while learning more about higher education.

**Dates:** 11 and 12 December 2018

**Duration:** 2 days/1 night

**Key outcomes:**
- GB: 4, 5, 7
- CDIF: 13, 14, 15, 16, 17

* Eligibility criteria will apply for this event.
Year 9: Investigate Your Future

Choosing GCSE options can be a daunting task. Some pupils don’t even know how to start this process. Working through a series of activities with current University students, pupils discover their key skills and start to realise what really interests and motivates them. They will also receive information about the various routes they could take, post-16.

**Dates:** 12, 13 and 15, 16 November 2018

**Duration:** 1 day event, 9.30am–2.30pm

**Key outcomes:**
- GB: 2, 5, 6, 7
- CDIF: 3, 4, 7, 11, 13, 14, 15

Year 10: ACE Days

An ACE Day is an opportunity for groups of school pupils to visit Newcastle University campus and take part in a range of interactive sessions to increase their awareness of and aspirations for higher education. Current University students work with small groups of pupils throughout the day to help them find out about all of the things that university can offer them.

**Dates:** 4–8 March 2019

**Duration:** 1 day event, 9.30am–2.30pm

**Key outcomes:**
- GB: 5, 7
- CDIF: 13, 16, 17
- NC: Numeracy

Year 10: University Survival Guide*

A residential summer school providing a varied and fun programme of activities designed to give pupils an insight into what student life is really like, what studying at university may involve and the range of subjects available to study.

**Dates:** 24–26 June 2019

**Duration:** 3 days, 2 nights

**Key outcomes:**
- GB: 4, 5, 7
- CDIF: 13, 14, 15, 16, 17

*Eligibility criteria will apply for this event.

We hadn’t visited Newcastle University before and I was delighted how much the children in my class enjoyed it. Many come from widening participation backgrounds and often don’t consider the prospect of going to university. Events such as these are important to raise their aspirations and help them fulfil their potential.

Teacher, North Fawdon Primary School
Year 11: Inspired Choices

This conference is designed to help your students think about how their GCSE and A level or equivalent qualifications can shape their future plans. Students will have the opportunity to attend a series of subject tasters to experience what it is like to study those subjects at university. Students will also work through a series of activities designed to get them thinking about how their current subject choices at school can relate to a variety of different degree disciplines at university.

Dates: 1–5 October 2018
Duration: 1 day event, 9.30am–2.30pm

Key outcomes:
- GB: 2, 4, 7
- CDIF: 7, 13, 14, 15

We hadn’t visited Newcastle University before and I was delighted how much the children in my class enjoyed it. Many come from widening participation backgrounds and often don’t consider the prospect of going to university. Events such as these are important to raise their aspirations and help them fulfil their potential.

Teacher, North Fawdon Primary School
Events

Year 12: Bitesize Uni*

Bitesize Uni is a residential summer school which will help students make an informed decision about whether they want to go to university; choose the subject(s) they want to study and assist them in their UCAS application.

**Dates:** 16–19 July 2019

**Duration:** 4 days, 3 nights

**Key outcomes:**
- GB: 4, 5, 7
- CDIF: 13, 14, 15, 17
- NC: Spiritual

★ Eligibility criteria will apply for this event.

Year 12: Get Ahead

Developed in conjunction with year 12 school teachers and students, this event is designed to provide a deeper insight into the specific study skills necessary for individual degree programmes, such as lab skills, fieldwork experience and referencing. Alongside this, the attendees will get a taste of what studying that particular subject at university is like and take away study skills that will aid their current studies.

**Dates:** 1–3 April 2019

**Duration:** 1 day event, 10.00am–4.30pm

**Key outcomes:**
- GB: 2, 4, 7
- CDIF: 7, 13, 14, 15

Year 12–13: Campus Tours

If you want to see for yourself what Newcastle has to offer, you are welcome to join one of our Campus Tours. Tours are led by current undergraduate students and are a great way to see the campus and facilities, including: the Students’ Union, the libraries, the Sports Centre and our dedicated Student Services building.

**Dates:** September–November 2018 and May–November 2019

**Duration:** 90 minutes

**Key outcomes:**
- GB: 4, 5, 7
- CDIF: 13, 16, 17
- NC: Numeracy
Year 12: Bitesize Uni*

Bitesize Uni is a residential summer school which will help students make an informed decision about whether they want to go to university; choose the subject(s) they want to study and assist them in their UCAS application.

Dates: 16–19 July 2019
Duration: 4 days, 3 nights

Key outcomes:
GB: 4, 5, 7
CDIF: 13, 14, 15, 17
NC: Spiritual

Eligibility criteria will apply for this event.

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Dates: September–November 2018 and May–November 2019
Duration: 90 minutes

Key outcomes:
GB: 4, 5, 7
CDIF: 13, 16, 17
NC: Numeracy
Events

Year 12–13: Open Days

Open Days give students an opportunity to explore our vibrant campus and find out what it’s like to be part of the friendly student community here at Newcastle. Students can also discover more about our degrees and subject areas, tour student accommodation and meet current students and teaching staff.

Further details and booking information is available on our website: www.ncl.ac.uk/openday

Dates: 15 September 2018; June 2019 (dates to be confirmed)
Duration: 9.00am–4.00pm

Key outcomes:
- GB: 2, 4, 7
- CDIF: 7, 13, 14, 15

*NEW for 2018/19*
Year 13: Head Start to HE

An on-campus event for students who want to give themselves a head start before going to university.

The programme is designed to: provide information to help students make final course choices; support the application process (including interview preparation); help students discover how to make the successful transition from school or college; and provide information about our national PARTNERS Programme supported entry route to Newcastle University (see page 6).

Dates: 19 September 2018
Duration: 3.00pm–6.00pm

Key outcomes:
- GB: 4, 5, 7
- CDIF: 7, 13, 14, 15, 16, 17

Year 13: Accommodation Tours

There are many factors to consider when choosing accommodation during the first year at university. We offer tours of a variety of accommodation, reflecting differences in facilities and price. Tours are led by current undergraduates, and give students the opportunity to find out what it’s like to live in one of our sites situated closest to campus.

Dates: Various dates between January and April 2019
Duration: 60 minutes

Key outcomes:
- GB: 2, 5, 7
- CDIF: 7, 13, 14, 15, 16, 17
Open Days

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Dates:
- 15 September 2018;
- June 2019 (dates to be confirmed)

Duration:
- 9.00am–4.00pm

Key outcomes:
- GB: 2, 4, 7
- CDIF: 7, 13, 14, 15

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Dates:
- 19 September 2018

Duration:
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Key outcomes:
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Dates:
- Various dates between January and April 2019

Duration:
- 60 minutes

Key outcomes:
- GB: 2, 5, 7
- CDIF: 7, 13, 14, 15, 16, 17
Delivered in your school or college, allowing your students to explore the wide range of subjects available to them in the Humanities and Social Sciences—developing their subject-specific knowledge, skills for university study and careers awareness.

PRESENTATIONS & ACTIVITIES
Delivered in your school or college, allowing your students to explore the wide range of subjects available to them in the Humanities and Social Sciences—developing their subject-specific knowledge, skills for university study and careers awareness.
### Overview

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<td>The Great Escape</td>
<td>7–10</td>
<td>Interactive</td>
<td>45 mins</td>
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<tr>
<td>Urban Planning</td>
<td>8–10</td>
<td>Interactive</td>
<td>50 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> Politics session, ‘Coalition Chaos’</td>
<td>10–13</td>
<td>Activity</td>
<td>60 mins</td>
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<tr>
<td><em>NEW for 2018/19</em> Applying to Law</td>
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<td>Presentation</td>
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<td><em>NEW for 2018/19</em> The Trading Game</td>
<td>9–13</td>
<td>Activity</td>
<td>60 mins</td>
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<tr>
<td>Business Bonanza</td>
<td>8–11</td>
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<tr>
<td>Race to Report</td>
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<td>60 mins</td>
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<tr>
<td>Debate</td>
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<tr>
<td>CSI Newcastle</td>
<td>7–9</td>
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<td>Full morning or afternoon</td>
</tr>
<tr>
<td>Dr Martin Luther King ‘I have a dream’</td>
<td>7–10</td>
<td>Interactive</td>
<td>45–60 mins</td>
</tr>
</tbody>
</table>
Presentations

Careers with Humanities and Social Sciences Degrees

This presentation is an overview of how a degree in a Humanities and Social Sciences subject can prepare you for employment in a diverse range of careers.

**Type:** Presentation  
**Duration:** 30 minutes  
**Year:** 10–13

**Key outcomes:**
- GB: 5, 6, 7
- CDIF: 3, 4, 11, 13, 14, 15, 16, 17

**This session goes well with:**
Subject-Specific Talks (see page 39)

Subject-Specific Talks

Choose from one of our talks on:
- Architecture; Business (Accounting and Finance, Business Management and Marketing); Economics; Education; English Language; English Literature; Film; Fine Art; Geography; History, Archaeology and Classics; Law; Media; Modern Languages; Music; Philosophy; Politics; Speech and Language Sciences; Sociology; Urban Planning.

These presentations focus on what it’s like to study the subject at university and provide an insight into the career paths of graduates within the subject. We can tailor these talks if requested.

**Type:** Presentation  
**Duration:** 20 minutes  
**Year:** 10–13

**Key outcomes:**
- GB: 4, 5, 6, 7
- CDIF: 3, 4, 11, 13, 14, 15
Soldier’s Possessions

**Subjects:** History and Archaeology

An interactive activity to help students appreciate that non-textual sources such as artefacts are an important source of information about the past. Students work in groups and investigate four genuine objects which were among the personal possessions of a soldier fighting in the trenches during World War One.

**Type:** Interactive
**Duration:** 45 minutes
**Year:** 8–10

**Key outcomes:**
- GB: 4, 7
- CDIF: 15
- NC: Spiritual
- NC: Social
- NC: Literacy

The Great Escape

**Subjects:** Law

Students work in teams and compete against each other in this fast-paced Law quiz. Each team is responsible for safeguarding their prisoners, who can escape at every wrong answer! The quiz is split into three rounds, focusing on Law Trivia, Strange Laws and Law at University.

**Type:** Interactive
**Duration:** 45 minutes
**Year:** 7–10

**Key outcomes:**
- GB: 4, 7
- CDIF: 15
- NC: Spiritual
- NC: Social
- NC: Moral
- NC: Literacy

Urban Planning

**Subjects:** Geography and Urban Planning

An interactive activity to introduce students to the world of urban planning. Students work in teams as urban planners to discuss issues associated with urbanisation and consider real-life scenarios. They must think through and debate what is important in urban areas for different types of people.

**Type:** Interactive
**Duration:** 50 minutes
**Year:** 8–10

**Key outcomes:**
- GB: 4, 7
- NC: Spiritual
- NC: Social
- NC: Literacy
Soldier’s Possessions

Subjects: History and Archaeology

An interactive activity to help students appreciate that non-textual sources such as artefacts are an important source of information about the past.

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Year: 8–10

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Type: Interactive
Duration: 50 minutes
Year: 8–10

Key outcomes:
GB: 4, 7
NC: Spiritual
NC: Social
Activities

*NEW for 2018/19*
Politics session, 'Coalition Chaos'

In this activity students are split into different political parties and must debate and negotiate policy positions in order to form a coalition government.

**Type:** Activity  
**Duration:** 60 minutes  
**Year:** 10–13

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 15  
- NC: Spiritual  
- NC: Cultural  
- NC: Literacy

*NEW for 2018/19*
Applying to Law

This covers all aspects of putting together a Law application and includes personal statement advice from our Head of Admissions at Newcastle Law School. The talk lasts around 30 minutes and is really helpful for prospective Law students.

**Type:** Presentation  
**Duration:** 30 minutes  
**Year:** 10–13

**Key outcomes:**  
- GB: 4, 5, 6, 7  
- CDIF: 3, 4, 11, 17

*NEW for 2018/19*
The Trading Game

**Subjects:** Economics, International Business Management, Politics, Geography

This activity brings the global economic market to your classroom. Students work in teams to represent a country while trading economic goods with their peers. The countries have to take account of their resources and use them to gain an advantage in the global market. But the teams have to be careful – world events and the current state of the world economy can complicate ‘free trade’.

**Type:** Activity  
**Duration:** 60 minutes  
**Year:** 9–13

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 13, 14, 15  
- NC: Spiritual
Business Bonanza

Subjects: Accounting and Finance, Business Management and Marketing
In this activity, students work together to bring a product to launch. Through the process they must find solutions to different business situations such as financing, marketing and production. The aim of the game is to successfully balance profit, customer satisfaction and ethics.

Type: Interactive
Duration: 60 minutes
Year: 8–11

Key outcomes:
- GB: 4, 7
- CDIF: 15
- NC: Spiritual
- NC: Social
- NC: Literacy

This session goes well with:
Subject-Specific Talks
(see page 39)

Race to Report

Subjects: Journalism, Media, English and Modern Languages
Students take on the role of journalists to work against the clock, examining evidence and gathering information to create and present their own newspaper article.

Type: Interactive
Duration: 60 minutes
Year: 7–9

Key outcomes:
- GB: 7
- CDIF: 15
- NC: Spiritual
- NC: Social
- NC: Literacy

Debate

A great session that encourages students to debate current affairs and topics relating to Humanities and Social Sciences subjects. Students work in groups and get an introduction to this style of learning at university. We can tailor the session to meet your specific needs.

Type: Interactive
Duration: 30 minutes
Year: 9–13

Key outcomes:
- GB: 7
- CDIF: 15
- NC: Spiritual
- NC: Social
- NC: Literacy
CSI Newcastle

In this activity students are tasked with solving a crime. They must work through three different subject activities in Medical Sciences, Humanities and Social Sciences, and Science and Engineering in order to gather clues and uncover the culprit. This is a great way for your students to find out more about the University and the broad range of subjects on offer to them.

Type: Interactive
Duration: Full morning or afternoon
Year: 7–9

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17
- NC: Social

Dr Martin Luther King ‘I have a dream’

Subjects: English Language and History

This activity celebrates the 50th anniversary of Dr Martin Luther King receiving an honorary degree from Newcastle University – the only UK university to award one in his lifetime. During this English Language activity students have the opportunity to analyse his famous ‘I have a dream’ speech and consider the literary techniques that were used. Along the way they find out more about who Dr Martin Luther King was and what he stood for.

Type: Interactive
Duration: 45–60 minutes
Year: 7–10

Key outcomes:
- GB: 4, 7
- CDIF: 15
- NC: Social
- NC: Cultural
- NC: Literacy

The ambassador had a fresh and informed presentation style. The students were highly engaged by her talk. A very effective blend of key information, enthusiasm and witty anecdotes. She definitely added value to the presentation.

Teacher, Down High School
In this activity students are tasked with solving a crime. They must work through three different subject activities in Medical Sciences, Humanities and Social Sciences, and Science and Environmental in order to gather clues and uncover the culprit. This is a great way for your students to find out more about the University and the broad range of subjects on offer to them.

**Type:** Interactive  
**Duration:** Full morning or afternoon  
**Year:** 7–9

**Key outcomes:**  

- GB: 4, 5, 7  
- CDIF: 16, 17  
- NC: Social, Cultural, Literacy

---

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**Type:** Interactive  
**Duration:** 45–60 minutes  
**Year:** 7–10

**Key outcomes:**  

- GB: 4, 7  
- CDIF: 15  
- NC: Social, Cultural, Literacy

The ambassador had a fresh and informed presentation style. The students were highly engaged by her talk. A very effective blend of key information, enthusiasm and witty anecdotes. She definitely added value to the presentation.

Teacher, Down High School
Our recent graduates offer fun and interactive workshops in the Medical Sciences, followed by application support and careers information at important progression points.
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### Overview

<table>
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<th>Subject area</th>
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<th>Duration</th>
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<td>Strawberry DNA</td>
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<td>Interactive</td>
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<td><strong>Dentistry</strong></td>
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<td>Why Apply to Dentistry?</td>
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<tr>
<td>The 'Tooth' About Dentists</td>
<td>7–9</td>
<td>Workshop</td>
<td>60 mins</td>
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<tr>
<td><strong>Food and Human Nutrition</strong></td>
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<tr>
<td>Why Apply to Food and Human Nutrition?</td>
<td>12–13</td>
<td>Presentation</td>
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<td><strong>Medical Sciences</strong></td>
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<td>Disease Dash</td>
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<tr>
<td>Medical Ethics Case Studies</td>
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<td>Medical Sciences Careers</td>
<td>10–12</td>
<td>Presentation</td>
<td>45 mins</td>
</tr>
<tr>
<td><strong>Medicine</strong></td>
<td></td>
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<tr>
<td>Why Apply to Medicine?</td>
<td>12</td>
<td>Presentation</td>
<td>45–60 mins</td>
</tr>
<tr>
<td>24 hours in A&amp;E</td>
<td>7–11</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>Medical Discovery</td>
<td>Primary</td>
<td>Interactive</td>
<td>45–60 mins</td>
</tr>
<tr>
<td>Medicine Workshop</td>
<td>7–9</td>
<td>Workshop</td>
<td>60–90 mins</td>
</tr>
<tr>
<td>CSI Newcastle</td>
<td>7–9</td>
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<td>Full morning or afternoon</td>
</tr>
<tr>
<td><strong>Medicine and Dentistry Combined</strong></td>
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</tr>
<tr>
<td>Medical Admissions Tests</td>
<td>12</td>
<td>Presentation</td>
<td>45–60 mins</td>
</tr>
<tr>
<td>Interview Workshop</td>
<td>12–13</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>The Personal Statements and UKCAT</td>
<td>12</td>
<td>Workshop</td>
<td>45–60 mins</td>
</tr>
<tr>
<td><strong>Pharmacy</strong></td>
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<tr>
<td>Why Apply to Pharmacy?</td>
<td>12</td>
<td>Presentation</td>
<td>45 mins</td>
</tr>
<tr>
<td>Saved by the Gel</td>
<td>9–13</td>
<td>Workshop</td>
<td>60 mins</td>
</tr>
<tr>
<td><strong>Psychology</strong></td>
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<td></td>
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</tr>
<tr>
<td>Why Apply to Psychology?</td>
<td>12</td>
<td>Presentation</td>
<td>30–45 mins</td>
</tr>
<tr>
<td>Forensic Psychology</td>
<td>7–13</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>The Psychology of Learning</td>
<td>7–12</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> The Brain Game</td>
<td>8–11</td>
<td>Interactive</td>
<td>75–90 mins</td>
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<tr>
<td><strong>Sport and Exercise Science</strong></td>
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</tr>
<tr>
<td>Why Apply to Sport and Exercise Science?</td>
<td>12–13</td>
<td>Presentation</td>
<td>45 mins</td>
</tr>
<tr>
<td>Sport Science Workshop</td>
<td>7–11</td>
<td>Workshop</td>
<td>60 mins</td>
</tr>
</tbody>
</table>
Biomedical Sciences

The students gained a massive amount from the day, it has certainly broadened their horizons regarding the possibilities within biomedical science. We look forward to welcoming you back next year. Thank you.

Teacher, Hereford Sixth Form College

Why Apply to Biomedical Sciences?

Why would you apply to study Biomedical Sciences? Learn about various strands of the subject, exciting research and careers prospects. We will also give you tips on how to apply!

Type: Presentation
Duration: 30–45 minutes
Year: 12–13

Key outcomes:
- GB: 4, 5, 7
- CDIF: 13, 14, 15, 16, 17

This session goes well with:
The Personal Statement and UKCAT (see page 58)

Genetics and Disease

Covers the basics of genetics, PCR and gel electrophoresis. With ‘PCR’ practical.

Type: Workshop
Duration: 60 minutes
Year: 9–13

Key outcomes:
- GB: 2, 4, 7
- CDIF: 7, 14

This session goes well with:
Why Apply to Biomedical Sciences? (see page 49)
Biomedical Sciences

Microbiology and Me

In this session students are introduced to fungi, bacteria, viruses and other microorganisms. Students also get the chance to make their own microorganism.

This session also provides an introduction to our Biomedical Sciences course at Newcastle.

Type: Presentation
Duration: 60 minutes
Year: 7–9

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17
- NC: Social

Strawberry DNA

DNA extraction from a strawberry using mostly household materials. This practical session can be delivered in a lab or a classroom.

Type: Interactive
Duration: 60 minutes
Year: 7–9

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17

This session goes well with:
Disease Dash (see page 53)
Dentistry

The 'Tooth' About Dentists put a real-life job into perspective and the Sugar In My Food aspect was very informative for the children.

Teacher, St Cuthbert’s Primary School

Why Apply to Dentistry?

What dentistry involves, Dentistry at Newcastle and the application process.

Type: Presentation
Duration: 45–60 minutes
Year: 12

Key outcomes:
- GB: 4, 5, 7
- CDIF: 13, 14, 15, 16, 17

This session goes well with:
The Personal Statement and UKCAT (see page 58)

The 'Tooth' About Dentists

An overview of the varied role of a dentist. Students will also learn about the sugar content of certain products and practise tooth filling and building a crown.

Type: Workshop
Duration: 60 minutes
Year: 7–9

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17
Food and Human Nutrition

Why Apply to Food and Human Nutrition?

Information on the Food and Human Nutrition programmes, exciting research, career prospects and how to apply through UCAS.

Type: Presentation
Duration: 45 minutes
Year: 12–13

Key outcomes:
- GB: 4, 5, 7
- CDIF: 13, 14, 15, 16, 17

Food and Human Nutrition Activity

Provides insight into what studying the subject is like at university and encourages students to think about what is in their food before they perform an investigation based around vitamin C.

Type: Workshop
Duration: 60 minutes
Year: 7–11

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17

This session goes well with:
Medical Sciences Careers (see page 54)

Engaging and interesting for the students and me!
Teacher, Dame Allan’s School
Medical Sciences

Why Apply to Medical Sciences?

An overview of the Medical Sciences courses offered within the faculty and how to apply for them using UCAS.

**Type:** Presentation  
**Duration:** 60 minutes  
**Year:** 12–13

**Key outcomes:**  
GB: 4, 5, 7  
CDIF: 13, 14, 15, 16, 17

**This session goes well with:**  
The Personal Statement and UKCAT (see page 58)

Disease Dash

A medical science orientated board game to be played in groups of four or more. The aim of the game is to stop your disease pathogen evolving before the other teams!

**Type:** Interactive  
**Duration:** 45–60 minutes  
**Year:** 7–13

**Key outcomes:**  
GB: 4, 7  
CDIF: 12, 15  
NC: Social  
NC: Literacy

**This session goes well with:**  
Medical Sciences Careers (see page 54)
Medical Sciences

Medical Ethics Case Studies

An explanation of the four main ethical principles of medical science and some examples of ethically challenging scenarios for students to discuss in groups and feedback their solutions.

Type: Interactive
Duration: 45–60 minutes
Year: 10–12

Key outcomes:
- GB: 4, 7
- CDIF: 13, 14, 15
- NC: Moral
- NC: Social

This session goes well with:
- Why Apply to Medical Sciences? (see page 53)
- Interview Workshop (see page 58)

Medical Sciences Careers

An overview of the Medical Sciences courses offered within the faculty and the careers they can lead to.

Type: Presentation
Duration: 45 minutes
Year: 10–12

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17

This session goes well with:
- 24 hours in A&E (see page 56)

I felt the Medical Ethics workshop was the most engaging outreach activity I have been involved in over the last 10 years.

Teacher, Queen Elizabeth High School, Hexham
Medical Ethics

Case Studies

An explanation of the four main ethical principles of medical science and some examples of ethically challenging scenarios for students to discuss in groups and feedback their solutions.

Type: Interactive
Duration: 45–60 minutes
Year: 10–12

Key outcomes:
GB: 4, 7
CDIF: 13, 14, 15
NC: Moral
NC: Social

This session goes well with:
Why Apply to Medical Sciences? (see page 53)
Interview Workshop (see page 58)

Medical Sciences Careers

An overview of the Medical Sciences courses offered within the faculty and the careers they can lead to.

Type: Presentation
Duration: 45 minutes
Year: 10–12

Key outcomes:
GB: 4, 5, 7
CDIF: 16, 17

This session goes well with:
24 hours in A&E (see page 56)

I felt the Medical Ethics workshop was the most engaging outreach activity I have been involved in over the last 10 years.
Teacher, Queen Elizabeth High School, Hexham
Medical Sciences

Medical Discovery

Youn/g.salter students will /g.saltet the opportunity to try out various medical skills includin/g.salt CPR and wound closure, as well as learnin/g.salt about the bones and or/g.saltans in the human body.

Type: Interactive
Duration: 45–60 minutes
Year: Primary

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17
- NC: Social

This session goes well with:
Medical Sciences Careers (see page 54)

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Why Apply to Medicine?

The ambassador was well informed, giving my pupils an overview of Medicine and Dentistry at Newcastle. A great presentation and pupils found it most worthwhile. Thank you.

Teacher, Sacred Heart Grammar School

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24 Hours in A&E

What medicine involves, Medicine at Newcastle, the application process and information on the UKCAT and MMIs.

Type: Presentation
Duration: 45–60 minutes
Year: 12

Key outcomes:
- GB: 4, 7
- CDIF: 13, 14, 15

Students play the role of a doctor in A&E, discussing how they would treat different patients who come in over 24 hours.

Type: Interactive
Duration: 60 minutes
Year: 7–11

Key outcomes:
- GB: 4, 5, 6, 7
- CDIF: 3, 4, 11
- NC: Social

This session goes well with:
Medical Sciences Careers (see page 54)
Medical Discovery

Younger students will get the opportunity to try out various medical skills including CPR and wound closure, as well as learning about the bones and organs in the human body.

**Type:** Interactive  
**Duration:** 45–60 minutes  
**Year:** Primary

**Key outcomes:**  
- GB: 4, 5, 7  
- CDIF: 16, 17  
- NC: Social

**This session goes well with:**  
The 'Tooth' About Dentists (see page 51)

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Medical Workshop

Students play the role of a cardiologist, learn the theory of CPR and emergency response. They also learn about the anatomy of a heart, make a model and experiment with pulse oximeters.

**Type:** Workshop  
**Duration:** 60–90 minutes  
**Year:** 7–9

**Key outcomes:**  
- GB: 4, 5, 7  
- CDIF: 16, 17

---

CSI Newcastle

In this activity students are tasked with solving a crime. They must work through three different subject activities in Medical Sciences, Humanities and Social Sciences, and Science and Engineering in order to gather clues and uncover the culprit. This is a great way for your students to find out more about the University and the broad range of subjects on offer to them.

**Type:** Interactive  
**Duration:** Full morning or afternoon  
**Year:** 7–9

**Key outcomes:**  
- GB: 4, 5, 7  
- CDIF: 16, 17  
- NC: Social

---

This session goes well with:  
The 'Tooth' About Dentists (see page 51)
Medical Admissions Tests

A workshop designed to inform students about the admissions tests used by UK universities, the UKCAT and BMAT. The talk covers the similarities and differences between the tests, the universities that use them and of course, some top tips!

Type: Presentation
Duration: 45–60 minutes
Year: 12
Key outcomes:
- GB: 4, 5, 7
- CDIF: 13, 14, 15, 16, 17

Interview Workshop

An insight into the two different types of interview (traditional and MMI), what interviewers are looking for, top tips and how to answer questions well.

Type: Interactive
Duration: 60 minutes
Year: 12–13
Key outcomes:
- GB: 4, 5, 7
- CDIF: 15, 16, 17
- NC: Social
- NC: Literacy

The Personal Statement and UKCAT

Brief overview of Medicine and Dentistry at Newcastle, how to write an effective personal statement and an overview of the UKCAT test.

Type: Workshop
Duration: 45–60 minutes
Year: 12
Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17

This session goes well with:
- Why Apply to Dentistry? (see page 51)
- Why Apply to Medical Sciences? (see page 53)
- Medical Ethics Case Studies (see page 54)
Medical Admissions Tests

A workshop designed to inform students about the admissions tests used by UK universities, the UKCAT and BMAT. The talk covers the similarities and differences between the tests, the universities that use them and of course, some top tips!

Type: Presentation
Duration: 45–60 minutes
Year: 12

Key outcomes:
GB: 4, 5, 7
CDIF: 13, 14, 15, 16, 17

Interview Workshop

An insight into the two different types of interview (traditional and MMI), what interviewers are looking for, top tips and how to answer questions well.

Type: Interactive
Duration: 60 minutes
Year: 12–13

Key outcomes:
GB: 4, 5, 7
CDIF: 15, 16, 17
NC: Social
NC: Literacy

This session goes well with:
Why Apply to Dentistry? (see page 51)
Why Apply to Medical Sciences? (see page 53)
Medical Ethics Case Studies (see page 54)

The Personal Statement and UKCAT

Brief overview of Medicine and Dentistry at Newcastle, how to write an effective personal statement and an overview of the UKCAT test.

Type: Workshop
Duration: 45–60 minutes
Year: 12

Key outcomes:
GB: 4, 5, 7
CDIF: 16, 17

This session goes well with:
Why Apply to Dentistry? (see page 51)
Why Apply to Medical Sciences? (see page 53)
Medical Ethics Case Studies (see page 54)
Pharmacy

Why Apply to Pharmacy?

Information on what you study on the Pharmacy degree, career prospects afterwards and how to apply.

Type: Presentation
Duration: 45 minutes
Year: 12

Key outcomes:
- GB: 4, 5, 7
- CDIF: 13, 14, 15, 16, 17

This session goes well with:
- The Personal Statement and UKCAT (see page 58)

Why Apply to Psychology?

Information on what you study on the Psychology degree, career prospects afterwards and how to apply.

Type: Presentation
Duration: 30–45 minutes
Year: 12

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17

This session goes well with:
- Forensic Psychology (see page 61)

Psychology

Saved by the Gel

In this interactive workshop students have the opportunity to make their own pharmaceutical gel. The science of pharmaceuticals is explained alongside the practical element of the session, allowing students to gain an appreciation of a subject that may well be new to them.

Type: Workshop
Duration: 60 minutes
Year: 9–13

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17

This session goes well with:
- Medical Sciences Careers (see page 54)
Forensic Psychology

An overview of forensic psychology, offender profiling, psychopathy and eyewitness testimony.

**Type:** Interactive  
**Duration:** 60 minutes  
**Year:** 7–13

**Key outcomes:**  
- GB: 4, 5, 7  
- CDIF: 16, 17  
- NC: Social

This session goes well with:  
- Why Apply to Psychology? (see page 60)

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The Psychology of Learning

Focuses on memory and how we can improve it. Also covers the science behind sleep and how we can use psychology to improve our revision skills.

**Type:** Interactive  
**Duration:** 60 minutes  
**Year:** 7–12

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 12, 15  
- NC: Social

---

The Brain Game

Interactive session during which students learn about different areas of the brain and work through fun activities to understand its many functions. Students will also make a brain hat, which they can keep to further their learning and understanding.

**Type:** Interactive  
**Duration:** 75–90 minutes  
**Year:** 8–11

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 15  
- NC: Social

This session goes well with:  
- Medical Sciences Careers (see page 54)
Sport and Exercise Science

Why Apply to Sport and Exercise Science?

Information on what you study on the Sport and Exercise Science degree, career prospects, exciting research and how to apply through UCAS.

Type: Presentation
Duration: 45 minutes
Year: 12–13

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17

Sport Science Workshop

Introduction to what Sport Science is like at university with ECG, pulse oximeter and peak flow meter practical.

Type: Workshop
Duration: 60 minutes
Year: 7–11

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17

This session goes well with:

Medical Sciences Careers (see page 54)

Super ambassador for Newcastle University, very friendly, knowledgeable and enthusiastic.

My students really enjoyed the presentation and have a better understanding of the Sport Science course and Newcastle University. Thank you.

Teacher, St Thomas More RC Academy
Why Apply to Sport and Exercise Science?

Information on what you study on the Sport and Exercise Science degree, career prospects, exciting research and how to apply through UCAS.

Type: Presentation
Duration: 45 minutes
Year: 12–13

Key outcomes:
GB: 4, 5, 7
CDIF: 16, 17

Sport Science Workshop
Introduction to what Sport Science is like at university with ECG, pulse oximeter and peak flow meter practical.

Type: Workshop
Duration: 60 minutes
Year: 7–11

Key outcomes:
GB: 4, 5, 7
CDIF: 16, 17

This session goes well with: Medical Sciences Careers (see page 54)

Super ambassador for Newcastle University, very friendly, knowledgeable and enthusiastic. My students really enjoyed the presentation and have a better understanding of the Sport Science course and Newcastle University. Thank you.
Teacher, St Thomas More RC Academy
We offer a wide range of presentations and interactive sessions to encourage students to study Science, Technology, Engineering and Maths (STEM) subjects at university and to appreciate their relevance in the world. They will gain an insight into the different careers available in these subject areas and will develop essential transferable skills.
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### Overview

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<th>Type of activity</th>
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<th>Activity</th>
<th>Duration</th>
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<tr>
<td>STEM: Careers</td>
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<td>Presentation</td>
<td>30 mins</td>
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<tr>
<td>The Story of Earth</td>
<td>1–6</td>
<td>Show</td>
<td>60 mins</td>
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<tr>
<td><em>NEW for 2018/19</em> Chemistry of the Senses</td>
<td>11–13</td>
<td>Presentation</td>
<td>60 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> Colourful Chemistry</td>
<td>1–13</td>
<td>Presentation</td>
<td>60 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> Coral Reefs of the UK and Ireland</td>
<td>10–13</td>
<td>Presentation</td>
<td>60–90 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> The North East Rocks!</td>
<td>10–13</td>
<td>Presentation</td>
<td>60–90 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> Earthquakes on Mars: Marsquakes</td>
<td>10–13</td>
<td>Presentation</td>
<td>60–90 mins</td>
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<td><strong>Workshops</strong></td>
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<tr>
<td>Zombie Apocalypse!</td>
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<td>120 mins</td>
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<tr>
<td>Island Escape!</td>
<td>7–9</td>
<td>Interactive</td>
<td>120 mins</td>
</tr>
<tr>
<td>STEM Articulate</td>
<td>9–13</td>
<td>Interactive</td>
<td>30–45 mins</td>
</tr>
<tr>
<td>Maths Murder Mystery</td>
<td>8–9</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> Spectroscopy in a Suitcase</td>
<td>12–13</td>
<td>Interactive</td>
<td>60–120 mins</td>
</tr>
<tr>
<td>Why STEM?</td>
<td>7–12</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>Changing the World with Engineering</td>
<td>5–8</td>
<td>Interactive</td>
<td>60–90 mins</td>
</tr>
<tr>
<td>What's the Matter?</td>
<td>5–6</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>Chemistry in Your World</td>
<td>7–9</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>Computer Science Unplugged</td>
<td>7–9</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> Chemistry in Your Shopping Basket</td>
<td>1–9</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>Amazing Adaptations</td>
<td>5–8</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>People Like Me</td>
<td>9–11 (girls)</td>
<td>Interactive</td>
<td>30–60 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> It's Elementary, My Dear Watson!</td>
<td>7–11</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>CSI Newcastle</td>
<td>7–9</td>
<td>Interactive</td>
<td>120–180 mins</td>
</tr>
<tr>
<td>Explore Engineering</td>
<td>7–11</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>What Floats Your Boat?</td>
<td>7–9</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>Renewable Energy: A Breeze?</td>
<td>10–11</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>How Long is a Piece of String?</td>
<td>7–9</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> Pitch Perfect</td>
<td>9–13</td>
<td>Interactive</td>
<td>180 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> An Introduction to GIS</td>
<td>9–13</td>
<td>Interactive</td>
<td>60–120 mins</td>
</tr>
<tr>
<td><em>NEW for 2018/19</em> Exploring the Physics behind GPS</td>
<td>10–13</td>
<td>Interactive</td>
<td>60–90 mins</td>
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<tr>
<td><strong>Street Science</strong></td>
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<tr>
<td>Young Scientists</td>
<td>3–4</td>
<td>Interactive</td>
<td>90–120 mins</td>
</tr>
<tr>
<td>Thinking Like a Scientist</td>
<td>5–6</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
<tr>
<td>Sweet Science</td>
<td>7–9</td>
<td>Interactive</td>
<td>60–90 mins</td>
</tr>
<tr>
<td>Become a Street Scientist</td>
<td>7–9</td>
<td>Interactive</td>
<td>60 mins</td>
</tr>
</tbody>
</table>
## Presentations

### STEM: Careers

Our STEM: Careers presentation can be tailored to include information about specific areas if required.

A great introduction to STEM in higher education, outlining the benefits of further study of STEM subjects. This provides an opportunity for your students to discover the vast array of transferable skills and career opportunities that can be gained from a degree in STEM. It includes specific graduate profiles.

**Type:** Presentation  
**Duration:** 30 minutes  
**Year:** 9–13  

**Key outcomes:**  
- GB: 4, 5, 7  
- CDIF: 16, 17  

This session goes well with:  

‘Why STEM?’ to add an additional interactive session to this presentation (see page 73)

### The Story of Earth

This science performance show tells the story of the birth of our planet and the major events that have impacted upon it. It is made fun and exciting with science demonstrations and experiments. It can be delivered as a whole school experience at primary level.

**Type:** Show  
**Duration:** 60 minutes  
**Year:** 1–6  

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 17  

---

Thank you for the brilliant session. The children were all really enthusiastic about what they learned. Thank you for providing them with this experience. It is much appreciated.

Teacher, Wallsend St Peter’s CofE Primary School
Presentations

*NEW for 2018/19*
Chemistry of the Senses

This presentation involves all our senses – sight, sound, taste, smell and touch, through some spectacular demonstrations and audience participation.

**Type:** Presentation  
**Duration:** 60 minutes  
**Year:** 11–13

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 12, 15

*NEW for 2018/19*
Colourful Chemistry

A demonstration lecture linking light and chemistry from colourful and sometimes spectacular reactions.

**Type:** Presentation  
**Duration:** 60 minutes  
**Year:** 1–13

**Key outcomes:**  
- GB: 2, 4, 7  
- CDIF: 7, 12, 14

The graduate ambassador was great – the presentations interesting and well written. The students were kept occupied and engaged throughout the two-hour period and looked like they had fun taking part.

Teacher, Northumberland Church of England Academy

For weekly #TryThisTuesday experiments to try in your classroom, and science-focused articles visit our blog: [http://blogs.ncl.ac.uk/stem](http://blogs.ncl.ac.uk/stem)
### *NEW for 2018/19*

**Coral Reefs of the UK and Ireland**

They might not be as big a tourist attraction as the shallow, warm, tropical coral reefs in Australia and Asia, but did you know the UK has its very own coral reefs? Not so easy to dive to as they are 300 metres under water, deep-sea corals have been living in the dark and building up mounds as high as the Eiffel Tower.

**Type:** Presentation  
**Duration:** 60–90 minutes  
**Year:** 10–13

**Key outcomes:**  
- GB: 2, 4, 7  
- CDIF: 7, 14, 15

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### *NEW for 2018/19*

**The North East Rocks!**

From the rocks used to build Hadrian's Wall, to the vast riches coming from carboniferous peat bogs, there is a clear link between the rocks we can find in our back garden and (geological) history. What are the origins of the rocks found in the North East of England? Why did the Romans build Hadrian's Wall where it is?

**Type:** Presentation  
**Duration:** 60–90 minutes  
**Year:** 10–13

**Key outcomes:**  
- GB: 2, 4, 7  
- CDIF: 7, 14, 15

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### *NEW for 2018/19*

**Earthquakes on Mars: Marsquakes**

How does the geological history of Mars compare to Earth? Does the planet have plate tectonics? And what kind of geological data has been collected by the Mars rovers? What do fossils look like on Mars?

**Type:** Presentation  
**Duration:** 60–90 minutes  
**Year:** 10–13

**Key outcomes:**  
- GB: 2, 4, 7  
- CDIF: 7, 12, 14
Workshops

All of our interactive activities are designed to allow students to explore STEM subjects while also getting the chance to work in groups and develop their communication skills.

Our standard maximum group size is 40 (Young Scientists is for a maximum of 30), however Why STEM? can be delivered to a larger group of 60.

For larger groups please contact us to discuss options by emailing outreach@ncl.ac.uk

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**Zombie Apocalypse!**

**Subjects:** Maths, Engineering, Design, Biology

Zombie Apocalypse! is a scenario-based activity in which the students carry out a range of STEM activities to survive a deadly virus that is turning humans into zombies. Students make a plan to survive by building a shelter, deciphering coded messages and navigating a route to safety. This is designed as an enrichment event and encompasses concepts of science, maths and engineering.

**Type:** Interactive

**Duration:** 120 minutes

**Year:** 10–11

**Key outcomes:**
- GB: 7
- CDIF: 12, 13, 14, 15
- NC: Social
- NC: Literacy

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**Island Escape**

**Subjects:** Maths, Biology, Mapping, Engineering, Design

In this session the students will be stranded on a desert island. They will work in small teams to complete a number of engaging and challenging tasks like cracking the code on a broken radio, navigating a route off the island and identifying animal species.

**Type:** Interactive

**Duration:** 120 minutes

**Year:** 7–9

**Key outcomes:**
- GB: 4, 7
- CDIF: 15
- NC: Social
- NC: Literacy
- NC: Numeracy
STEM Articulate

STEM Articulate is a fast-paced twist on the original game that will test your students' knowledge of 'all that is STEM'. We recommend that this game is booked alongside another STEM session rather than on its own.

**Type:** Interactive

**Duration:** 30–45 minutes

**Year:** 9–13

**Key outcomes:**
- GB: 4, 5, 7
- CDIF: 15, 16, 17
- NC: Social
- NC: Literacy

Maths Murder Mystery

Subject: Maths

A maths-based game that is fun, challenging and encourages the use of initiative. Groups of students are confronted with a murder mystery to solve which requires lateral thinking and a unique approach.

**Type:** Interactive

**Duration:** 60 minutes

**Year:** 8–9

**Key outcomes:**
- GB: 4, 7
- CDIF: 15
- NC: Social
- NC: Literacy

*NEW for 2018/19*

Spectroscopy in a Suitcase

We take portable spectrometers into schools and colleges to let students have hands-on experience running and interpreting spectra.

**Type:** Interactive

**Duration:** 60–120 minutes

**Year:** 12–13

**Key outcomes:**
- GB: 4, 7
- CDIF: 15
- NC: Social
- NC: Literacy
Workshops

Changing the World with Engineering

**Subject:** Engineering

Students will learn about the different kinds of engineering, some of the scientific principles behind it and how it transforms the world around us. The interactive session includes hands-on demos, myth busting and an interactive bridge building activity.

**Type:** Interactive

**Duration:** 60–90 minutes

**Year:** 5–8

**Key outcomes:**
- GB: 4, 7
- CDIF: 12
- NC: Social
- NC: Literacy

What’s the Matter?

**Subject:** Chemistry

This interactive workshop is an ideal introduction for younger years to the three states of matter and what happens when something doesn’t fit into one of these categories. The workshop includes demonstrations, discussion and the opportunity for students to get involved in experiments themselves.

**Type:** Interactive

**Duration:** 60 minutes

**Year:** 5–6

**Key outcomes:**
- GB: 4, 7
- CDIF: 13, 14, 15
- NC: Social
- NC: Literacy

Chemistry in Your World

**Subject:** Chemistry

Chemistry in Your World explores how chemistry is directly related to the students’ lives. Students are then given the opportunity to try out some of the new concepts discussed in the workshop and explore the chemistry behind food and drink.

**Type:** Interactive

**Duration:** 60 minutes

**Year:** 7–9

**Key outcomes:**
- GB: 4, 7
- CDIF: 17
- NC: Social
- NC: Literacy
Why STEM?

An interactive workshop which explores the world of STEM and why students might like to pursue it. The workshop looks at how STEM has influenced our world, what studying a STEM subject at university involves and possible careers in STEM areas. This workshop can be delivered to groups of up to 60.

Type: Interactive
Duration: 60 minutes
Year: 7–12

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17
- NC: Social

This session goes well with:
STEM: Careers (see page 67)

Computer Science Unplugged

Subjects: IT, Maths

Computer science without a computer! Students will work through a range of activities, primarily in pairs, which highlight the underlying principles of computer science, such as algorithms and programming. No technology required!

Type: Interactive
Duration: 60 minutes
Year: 7–9

Key outcomes:
- GB: 4, 7
- NC: Social
- NC: Literacy

*NEW for 2018/19*
Chemistry in Your Shopping Basket

This presentation is designed to raise awareness of chemistry and potential careers in chemistry through the idea that chemistry is involved in everything around us. It was aimed originally at students in year 5–9. Since its inception in April 2009, it’s been delivered to over 12,000 students from reception to year 13.

Type: Interactive
Duration: 60 minutes
Year: 1–9

Key outcomes:
- GB: 2, 4, 7
- CDIF: 7, 12, 14
- NC: Social
- NC: Literacy
Workshops

Amazing Adaptations

Subjects: Biology, Conservation

Amazing Adaptations looks at how different species have evolved to cope with their environments and introduces the concept of human influence on species survival. Included in the workshop is the opportunity for students to create their own species.

Type: Interactive
Duration: 60 minutes
Year: 5–8

Key outcomes:
- GB: 4, 7
- CDIF: 12
- NC: Social
- NC: Literacy

People Like Me: Helping Girls to be Happy and Successful at Work

This WISE (Women into Science and Engineering) workshop helps girls identify their personal strengths and the STEM career opportunities that are available to them as a result. This is an activity for groups of girls only.

Type: Interactive
Duration: 30–60 minutes
Year: 9–11 (girls)

Key outcomes:
- GB: 5, 6, 7
- CDIF: 3, 4, 11, 16, 17
- NC: Social
- NC: Literacy

*NEW for 2018/19*
It's Elementary, My Dear Watson!

This presentation looks at the properties, reactions and uses of a range of chemical elements. It includes an interactive PowerPoint presentation with electronic voting handsets, spectacular demonstrations and some audience participation.

Type: Interactive
Duration: 60 minutes
Year: 7–11

Key outcomes:
- GB: 2, 4, 7
- CDIF: 7, 14, 15
- NC: Social
- NC: Cultural
Amazing Adaptations

Subjects: Biology, Conservation

Amazing Adaptations looks at how different species have evolved to cope with their environments and introduces the concept of human influence on species survival. Included in the workshop is the opportunity for students to create their own species.

Type: Interactive
Duration: 60 minutes
Year: 5–8

Key outcomes:
GB: 4, 7
CDIF: 12
NC: Social
NC: Literacy

People Like Me: Helping Girls to be Happy and Successful at Work

This WISE (Women into Science and Engineering) workshop helps girls identify their personal strengths and the STEM career opportunities that are available to them as a result. This is an activity for groups of girls only.

Type: Interactive
Duration: 30–60 minutes
Year: 9–11 (girls)

Key outcomes:
GB: 5, 6, 7
CDIF: 3, 4, 11, 16, 17
NC: Social
NC: Cultural

*NEW for 2018/19*

It’s Elementary, My Dear Watson!

This presentation looks at the properties, reactions and uses of a range of chemical elements. It includes an interactive PowerPoint presentation with electronic voting handsets, spectacular demonstrations and some audience participation.

Type: Interactive
Duration: 60 minutes
Year: 7–11

Key outcomes:
GB: 2, 4, 7
CDIF: 7, 14, 15
NC: Social
NC: Literacy
CSI Newcastle

Subjects: Humanities and Social Sciences, Medical Sciences and STEM

In this activity students are tasked with solving a crime. They must work through three different subject activities in Medical Sciences, Humanities and Social Sciences, and Science and Engineering in order to gather clues and uncover the culprit. This is a great way for your students to find out more about the University and the broad range of subjects on offer to them.

Type: Interactive
Duration: 120–180 minutes
Year: 7–9

Key outcomes:
- GB: 4, 5, 7
- CDIF: 16, 17
- NC: Social

Explore Engineering

Subject: Engineering

This activity gives students an insight into the world of engineering and tasks them to build an electronic circuit that replicates a pedestrian traffic light system. This challenges participants to get hands-on experience with a wide variety of electrical components.

Type: Interactive
Duration: 60 minutes
Year: 7–11

Key outcomes:
- GB: 4, 7
- NC: Literacy
- NC: Numeracy

What Floats Your Boat?

Subjects: Physics and Engineering

Our interactive workshop introduces physics and engineering concepts such as buoyancy and density to pupils in year 7–9. The students are then challenged to build a boat with specific materials and a budget.

Type: Interactive
Duration: 60 minutes
Year: 7–11

Key outcomes:
- GB: 7
- CDIF: 12, 13
- NC: Social
- NC: Literacy
- NC: Numeracy

I liked What Floats Your Boat because we got to work in small groups and had a chance to be creative, resourceful and logical. Our boat was fun to make!

Year 9 student, Kings Priory School
Renewable Energy: A Breeze?

A debate on the positive and negative aspects of renewable energy, particularly in the form of wind turbines. The students will also be set the task of incorporating various factors to decide where to build a wind farm. A great activity for building teamwork and debating skills as well as picking up knowledge on a very current STEM issue.

Type: Interactive
Duration: 60 minutes
Year: 10–11

Key outcomes:
- GB: 7
- CDIF: 13, 14, 15
- NC: Social

How Long is a Piece of String?

Subject: Physics

Physics uncovered: physics is often described as the study of the really big or the really small. This workshop explores these concepts and everything in between.

Type: Interactive
Duration: 60 minutes
Year: 7–9

Key outcomes:
- GB: 4, 7
- NC: Social

“I liked What Floats Your Boat because we got to work in small groups and had a chance to be creative, resourceful and logical. Our boat was fun to make!”

Year 9 student, Kings Priory School
**Workshops**

<table>
<thead>
<tr>
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<td>Pitch Perfect</td>
<td>An Introduction to GIS</td>
<td>Exploring the Physics behind GPS</td>
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A three-hour practical session, including two hours of outdoor fieldwork to analyse the suitability of your school’s field for football, i.e. is it level? This session brings together basic maths and applies it to a geography scenario. It can be run by University staff or just the levelling equipment can be hired for your own fieldwork projects.

**Type:** Interactive  
**Duration:** 180 minutes  
**Year:** 9–13

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 13, 14, 15  
- NC: Social  
- NC: Numeracy

A one or two-hour session which can include a 30-minute computer-based lab session which presents the opportunities and benefits of analysing geographical data through the use of GIS. Students will gain an understanding of GIS, its applications and learn about geospatial technologies that are used to collect, analyse and present geographical data.

**Type:** Interactive  
**Duration:** 60–120 minutes  
**Year:** 9–13

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 15  
- NC: Social  
- NC: Literacy

This session can include a 30-minute computer-based lab session which presents an overview of current Global Navigation Satellite Systems, the physics behind how they work and their applications in daily life. This exercise is suitable for year 10 upwards.

**Type:** Interactive  
**Duration:** 60–90 minutes  
**Year:** 10–13

**Key outcomes:**  
- GB: 4, 7  
- CDIF: 13, 14, 15  
- NC: Social  
- NC: Literacy
*NEW for 2018/19*

**Pitch Perfect**

A three-hour practical session, including two hours of outdoor fieldwork to analyse the suitability of your school’s field for football, i.e. is it level? This session brings together basic maths and applies it to a physical scenario. It can be run by University staff or just the level equipment can be hired for your own fieldwork projects.

**Type:** Interactive  
**Duration:** 180 minutes  
**Year:** 9–13

**Key outcomes:**
- GB: 4, 7  
- CDIF: 13, 14, 15  
- NC: Social  
- NC: Literacy

*NEW for 2018/19*

**An Introduction to GIS**

A one or two-hour session which can include a 30-minute computer-based lab session which presents the opportunities and benefits of analysing geographical data through the use of GIS. Students will gain an understanding of GIS, its applications and learn about spatial technologies that are used to collect, analyse and present geographical data.

**Type:** Interactive  
**Duration:** 60–120 minutes  
**Year:** 9–13

**Key outcomes:**
- GB: 4, 7  
- CDIF: 15  
- NC: Social  
- NC: Literacy

*NEW for 2018/19*

**Exploring the Physics behind GPS**

This session can include a 30-minute computer-based lab session which presents an overview of current Global Navigation Satellite Systems, the physics behind how they work and their applications in daily life. This exercise is suitable for year 10 upwards.

**Type:** Interactive  
**Duration:** 60–90 minutes  
**Year:** 10–13

**Key outcomes:**
- GB: 4, 7  
- CDIF: 13, 14, 15  
- NC: Social  
- NC: Literacy
Our Street Science Team is made up of Newcastle University STEM students who ‘science busk’. This means that they perform a range of engaging and interactive demonstrations that are designed to encourage students to find out more about the world around them.

The workshops cover a range of STEM subjects for students in year 3–9. They can be tailored to your specific needs and can be shortened or lengthened to suit your requirements.

**Young Scientists**

This workshop takes your team of young scientists on an adventure through the world of STEM. Visiting a variety of characters, they’ll discover the diverse range of scientific fields and take part in lots of fun activities along the way.

Each young scientist will also receive their own certificate and Street Science Busking Kit with experiments they can try at home.

**Type:** Interactive

**Duration:** 90–120 minutes

**Year:** 3–4

**Key outcomes:**

- GB: 4, 5, 7
- CDIF: 16, 1
- NC: Social

**Thinking Like a Scientist**

This workshop uncovers new types of scientist by breaking down the myths and stereotypes. The group will Predict, Experiment and Observe during our interactive STEM demonstrations.

**Type:** Interactive

**Duration:** 60 minutes

**Year:** 5–6

**Key outcomes:**

- GB: 4, 7
- CDIF: 12, 17
- NC: Social
- NC: Literacy
Sweet Science

**Subjects:** Chemistry, Biology, Psychology, Food Science

Discover the science behind making honeycomb, ice cream and sherbet. The workshop also explores the psychology of tasting, the evolutionary reasons for our love of sugar and what happens when we eat too much sugar.

**Type:** Interactive  
**Duration:** 60–90 minutes  
**Year:** 7–9

**Key outcomes:**
- GB: 4, 7  
- CDIF: 17  
- NC: Social

Become a Street Scientist

This workshop offers your students an insight into the art of science busking and a chance to work together and practise some Street Science demonstrations. The group will learn what it takes to be a Street Scientist and their confidence will be boosted when they perform our favourite demonstrations to the rest of the class.

**Type:** Interactive  
**Duration:** 60 minutes  
**Year:** 7–9

**Key outcomes:**
- GB: 4, 7  
- CDIF: 15  
- NC: Social  
- NC: Literacy

The feedback was excellent! The students particularly loved Sweet Science but also found the other three sessions very useful and enjoyable.

My Deputy Head was so impressed he is thinking of allotting an additional one hour per week to STEM enrichment for year 7 and 8.

Teacher, Corbridge Middle School
Resources, events and continuing professional development (CPD) designed around the needs of schools and colleges for teachers' career development and to support pupils' progress.
Resources

Resources, events and continuing professional development (CPD) designed around the needs of schools and colleges for teachers’ career development and to support pupils’ progress.
Resources

Teachers’ Toolkit

Our Teachers’ Toolkit is a searchable database bringing together all University events, activities and resources for schools and colleges. This includes on-campus events to explore subjects in more depth, presentations on student finance for delivery in schools, downloadable teaching resources and training opportunities for school staff.

www.ncl.ac.uk/teacherstoolkit

The North East Raising Aspiration Partnership (NERAP)

This partnership between Newcastle, Durham, Northumbria, Sunderland and Teesside universities provides a comprehensive programme of aspiration-raising activities to help inform your students about the benefits of higher education.

Its aim is to become the single point of contact for teachers and advisers so that students in the region receive the information they need to make informed decisions about higher education.

NERAP ambassadors are available to visit your school and provide impartial advice about higher education. To book an ambassador or to find out more visit www.nerap.ac.uk

On Course to NCL

This online resource for your students covers all aspects of the application process, from choosing the right A levels through to submitting a UCAS form and beyond. Your students can watch live webchats, read top tips and find out what it is really like to study at Newcastle University from our team of student bloggers.

www.ncl.ac.uk/oncoursetoncl
Library Sessions

Newcastle University Library’s Education Outreach team provides a range of services for teachers and school/college students.

We offer free ‘archives alive’ workshops on a variety of topics including 19th Century Newcastle, the History of Medicine and the First World War.

We also welcome school visits to the Library for taught sessions on research skills, plagiarism and referencing and offer support for students undertaking the Extended Project Qualification (EPQ).

The Library’s sixth form access scheme enables students to use the Library’s resources in their own time to further their studies, while teachers can become members of the Library and borrow resources.

Visit our website to find out more and access our free resources for teachers

www.ncl.ac.uk/library/services/education-outreach

Great North Museum: Hancock

Access the unique collections and facilities of the Great North Museum: Hancock, a purpose-built natural history museum.

In partnership with Newcastle University, the museum holds the collections of the Natural History Society of Northumbria and the Society of Antiquaries of Newcastle upon Tyne. It is also home to the Shefton collection, bequeathed to the University by the late Professor Brian Shefton.

Highlights of the museum include mummies from Ancient Egypt, a planetarium, a life-sized replica T-Rex skeleton, an interactive model of Hadrian’s Wall, major new displays showing the wonder and diversity of the animal and plant kingdoms, and spectacular objects from Ancient Greece.

The museum also holds temporary exhibitions and a range of free events, from children’s activities to lectures and evening events.

To find out more visit

www.greatnorthmuseum.org.uk/
Resources

Students as Role Models

Schools in the North East have the opportunity to welcome a student volunteer from Newcastle University to work alongside teachers and provide a range of classroom support. We offer this service as part of our integrated career development initiative for students, giving them the chance to earn academic credit for their activities as well as acting as positive role models for students in local schools.

Please contact us at outreach@ncl.ac.uk if you would like your school or college to be involved.

Student Ambassadors

We employ a team of student ambassadors each year to support our work in schools and colleges. Our student ambassadors represent most courses from across the University and can offer a wide range of different experiences.

For more information about employing a student volunteer, or organising an event for your school with one of our student ambassadors, please contact us at outreach@ncl.ac.uk

Information for Parents and Carers

We offer information for parents and carers who are supporting young people to make decisions about their future. This, together with details of events and activities for parents and carers, can be found at www.ncl.ac.uk/parents

NUSU: Back to School

Newcastle University students go back to their old schools to deliver a talk to current students about their journey to University and about student experience. This gives an authentic view of student life from a current University student.

We encourage schools to get in contact if they have former students who are currently at Newcastle University. Our students typically deliver these talks during University holidays while they are at home (end of December until start of January; end of March until end of April; end of May until start of September).

For more information, please contact us at access.union@ncl.ac.uk
NUSU: Societies into Schools

These hands-on events are designed and delivered by our society members and sports teams each academic year for both primary and secondary school students.

The sessions showcase the full range of extracurricular activities and volunteering opportunities available to undergraduates alongside their degree, through fun and interactive workshops designed to educate students.

Past sessions have included:

- gender and sexuality workshops by our LGBT+ Society
- mental health workshop from our Mental Health Awareness society
- day at a reservoir with the Sailing & Yachting Club
- STEM workshops hosted by the Engineers Without Borders society
- music workshops hosted by our Music Society

As these workshops are designed and delivered by students they tend to be delivered in University term time in the North East region.

For more information, please contact us at access.union@ncl.ac.uk

North East Collaborative Outreach Programme and FutureMe

The North East Collaborative Outreach Programme (NECOP) is a regional collaboration between the universities and colleges in the North East. It delivers a targeted programme of information and support relating to higher education options through the FutureMe programme.

Students taking part in FutureMe will have access to a range of activities and events to support them in considering their future options and learning about the educational pathways available to them.

Schools eligible to take part will be contacted directly, but to find out more about the FutureMe programme please visit www.futureme.ac.uk

To find out more about the HEFCE funded National Collaborative Outreach Programme please visit www.hefce.ac.uk/sas/ncop/
Events

Higher Education Fairs

Representatives from Newcastle University attend over 40 higher education fairs every year throughout the UK – most of which are UCAS events. To find out when these fairs take place, their location and opening times, go to www.ucas.com. If you have any questions about the higher education fairs we are attending please contact us.

Open Days

Open Days give students the opportunity to explore our vibrant campus and find out what it’s like to be part of the friendly student community here at Newcastle. Students can also discover more about our degrees and subject areas, tour student accommodation and meet current students and teaching staff.

Further details and booking information is available on our website www.ncl.ac.uk/openday

Dates: Saturday 15 September 2018; 2019 dates to be confirmed
Duration: 9.00am–4.00pm
Location: Newcastle University campus

CPD

PARTNERS Programme Supported Entry Route Teachers' Session

The PARTNERS Programme supported entry route is Newcastle University’s access scheme offering a range of support and opportunities to eligible young people to help them make a successful application to Newcastle University. A member of the PARTNERS team can come to your school/college to explain more about the scheme, the eligibility criteria, what the benefits are for your students and how to apply.

Advancing Access

Advancing Access is a partnership between 24 leading universities, schools and colleges.

It provides a variety of free CPD resources and online events for teachers and advisers to help them support students’ progression from key stage 4, right through to making university choices.

Examples of best practice and how-to guides for teachers and advisers to use as part of peer-to-peer CPD and in the classroom with their students are available at www.advancingaccess.ac.uk
With thanks

to our student reps who took part in this photoshoot...

Elle – Medicine MB BS Honours, Haris – Medicine MB BS Honours, Jasmine – English Literature BA Honours, Kwanto – Business Management BA Honours, Nikita – Biomedical Sciences BSc Honours, Robbie – Medicinal Chemistry BSc Honours, Rona – Law LLB Honours, Safiah – Physiological Sciences BSc Honours, Tinashe – Chemical Engineering MEng Honours, Thomas – Cellular & Molecular Biology BSc Honours, Tom – Civil Engineering MEng Honours