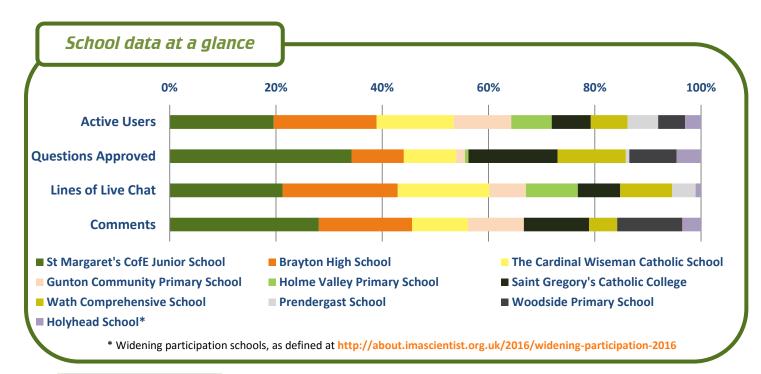


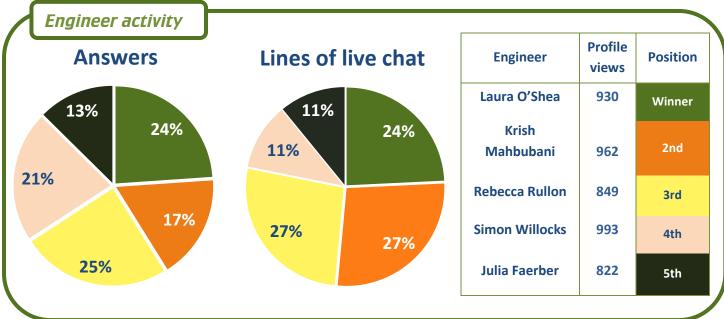




### June 2016

This was a themed zone funded by the Wellcome Trust, with five engineers working in a variety of areas relating to Health. Simon works to support the manufacturing of a flu vaccine, Rebecca is a PhD student who provides doctors with smartphones and tablets to help them monitor patients, Laura develops sports clothing and equipment to improve athletes' performance, Krish is researching how to freeze cells, tissues and organs in order to keep them longer and transplant them successfully and Julia is a PhD student working on developing a pill to take videos inside the human gut to uncover diseases such as cancer. This zone had the highest number of students logged in out of all the zones in June's event, which resulted in the highest number of questions approved.







### Key figures from the Health Zone and the averages of the June zones

PAGE VIEWS	HEALTH ZONE	JUNE '16 ZONES AVERAGE
Total zone	24,918	19,051
ASK page	2,162	1,397
CHAT page	2,336	2,696
VOTE page	1,432	1,146

### Popular topics

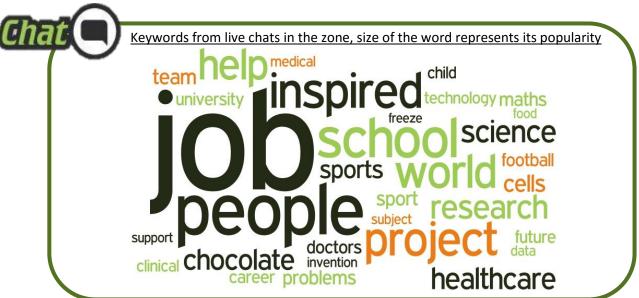
Many of the questions were biomedically themed, with many students interested in the specific research areas of each of the engineers. Julia was asked about the pill she is developing, with questions about how it can be directed when inside the body and how long it will be until the project is completed. Sport was a very popular topic, stemming from Laura's work on developing sportswear and equipment. Students were interested in the types of materials she uses,

	HEALTH ZONE	JUNE '16 ZONES AVERAGE	IAE AVERAGE
Schools	10	10	10
Students logged in	544	416	374
% of students active in ASK, CHAT or VOTE	80%	84%	85%
Questions asked	936	554	533
Questions approved	304	220	199
Answers given	389	424	425
Comments	71	45	39
Votes	397	285	285
Live chats	19	19	17
Lines of live chat	5,912	4,909	4,916
Average lines per live chat	311	263	295

if she has ever designed for any famous athletes and whether her designs could be used to help disabled people play sports. There were a lot of general questions on sport, with students and engineers discussing which teams they support and sports that they play.

Students had obviously engaged with the engineers' profiles with questions sent to Simon about why Geography was his favourite subject in school for example. Krish was asked a lot about the flexible chocolate she wanted to develop if she won the prize money, although wasn't asked so much about her research area.

Lots of students asked how the engineers work could be used to benefit the world and if it is environmentally friendly. There were more general questions about the engineers' experiences at school, their family lives and views on animal testing.







Keywords of questions approved in the zone, length of bar represents frequency of use

0 2 4 6 8 10 12 14 16 18

## pill

### sport

# job project

material school fabric cure design

# **Example Questions** (click for links)

"Have you personally enabled a disabled person to do sports?"

"Why do you think people will want flexible chocolate?"

# invention engineer family

"What do you think about cloning humans?"

"What did you have to study at school to become an engineer?" "Have you ever felt like you can't go on and the things you are doing seem impossible?"

flexible chocolate

competition animal cancer "Were you popular at school?"

"Do you have any way to control the pill while it is someone's body?"

"What countries have you been to with your job?"

future create machine idea "Is what you make environmentally friendly?" "What is the most complicated machine you have supplied a doctor with?"

"What do you think about testing pills on animals?"

"Is there a lot of maths involved in your work?"

"What does DNA stand for?"

"Can you describe the technology you used in World Cup football and in rugby jerseys?"

"Does the pill have a source of light to beat the dark inside the body?" "Who is the most famous person you have helped make sports equipment for?"

"Why did you enter this competition?"

"What effect do you think your invention will have on this generation?"



### Examples of good engagement

Sport was a popular topic because of Laura's work with sports clothing, and students were able to relate through conversations about their favourite sports and technology associated with them.

"What sports have you worked with?" - Student

"I've worked across quite a few sports over the years, I'll try and list as many as I can remember!
Running, Football, Rugby, Cycling, Skateboarding, Surfing, Snowboarding, Mountain Biking, Canoeing,
Rowing, Boxing, Wrestling... and maybe a few more! Do you have a favourite sport?" – Laura, engineer

"Taekwondo" - Student

"Awesome. Did you know there's lots of little pressure sensors inside the red and blue torso protectors that they wear to help the judges know if there's been scoring hit?" – Laura, engineer

"No but that's AMAZING!!!!! The technology is really improving." – Student

Most of the live chats had a friendly and relaxed atmosphere, with students and engineers bonding over hobbies and common interests.

"Engineers what's your favourite football team? Mine is Newcastle united" - Student

"Mine is Borussia Dortmund, team from Germany!!! Do you know it?" - Julia, engineer

"Yes I do! I'd like to see Newcastle vs Dortmund!" - Student

"That would be great!!! I have been to the Newcastle stadium 6 years ago. They played against Chelsea!" – Julia, engineer

"Yes I've been there too! Went for a stadium tour and watched the Sunderland game! Ayoze just got signed there and shredded Sunderland's defence!" – **Student** 

### Engineer winner: Laura O'Shea

Laura's plans for the prize money: "I want to produce a workshop that can go around schools so that young people can get to grips with the engineering that goes in to making your favourite sports team's kit!" Read Laura's thank you message.

### Student winner: ahumangirl

For great engagement during the event, this student will receive a gift voucher and a certificate.



#### Feedback

We're still collecting feedback from teachers, students and engineers but here are a few of the comments made during the event...

"It was great to hear all sorts of different questions, and be real with the students. In some ways being online allows you to do that in ways that you can't face to face." – **Engineer** 

"I have learnt a lot about engineers in the past few days and am now thinking what I want to be when I am older." – **Student** 

