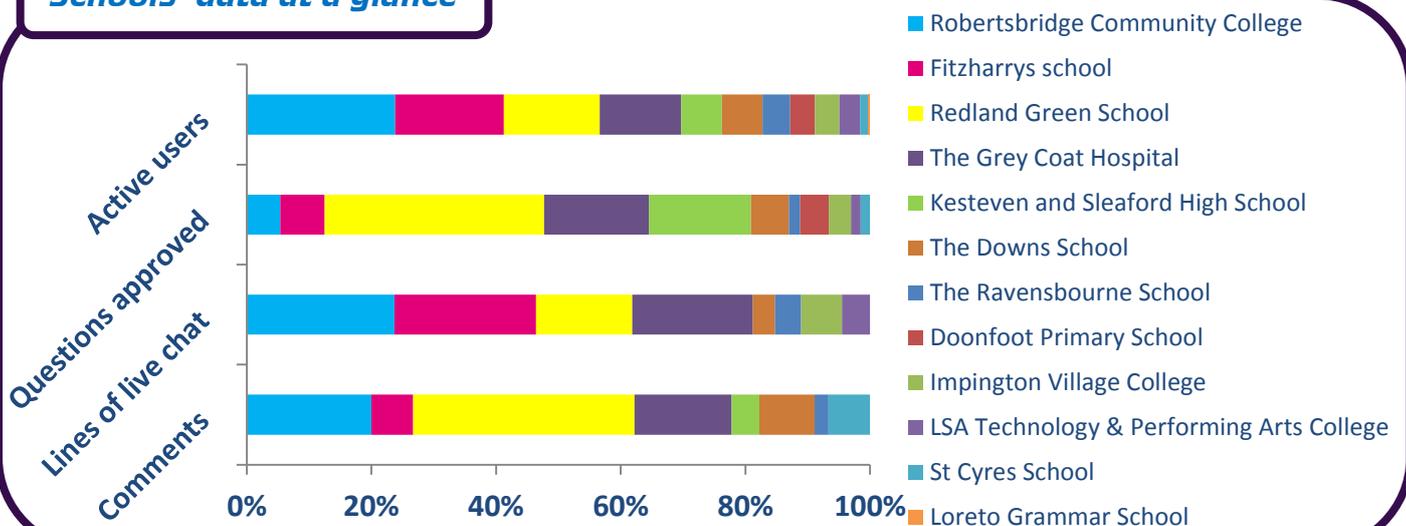


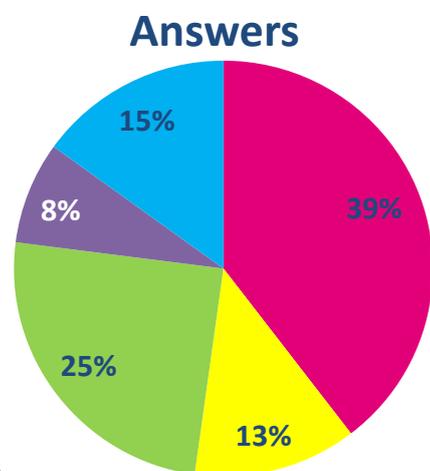
## November 2014

With 521 registered students and over 30,000 page views, the Big Data Zone had one of the highest levels of activity of I'm a Scientist November 2014, which has been our busiest event so far. The winner of the zone, Stefan really earned his prize by attending every live chat and being responsible of almost half of the scientists' lines of live chat and 39% of their answers.

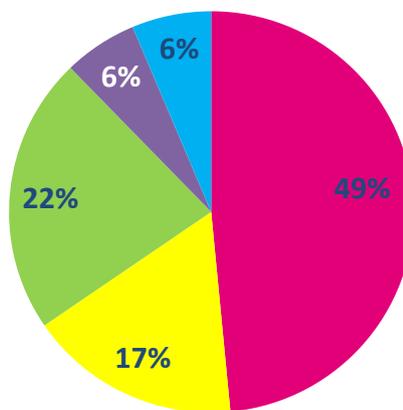
### Schools' data at a glance



### Scientists' activity



### Lines of live chat



Scientist profile	Page views	Position
Stefan Lines	1,516	Winner
Rob Appleyard	947	2nd
Anna Scaife	1,156	3rd
George Ryall	726	4th
Jodi Schneider	752	5th

Key figures from I'm a Scientist November 2014 for the zone, and the average of all 10 zones

(active students are those who used ASK, CHAT, VOTE or commented)

Number of page views during the event (plus previous week and following weekend)

BIG DATA ZONE	PAGE VIEWS	NOV14 AVERAGE	2014 AVERAGE
Total zone	30,831	27,730	20,848
ASK page	2,481	2,305	1,648
CHAT page	4,823	3,959	2,727
VOTE page	1,933	1,637	1,284

	BIG DATA ZONE	NOV14 AVERAGE	2014 AVERAGE
Registered students	521	459	369
% of active students	89%	88%	83%
Questions asked	842	894	542
Questions approved	394	396	293
Answers given	705	796	555
Comments	56	99	75
Votes	395	402	305
Lines of live chat	7,202	6,507	3,675
Live chats	21	21	15
Schools	12	13	9

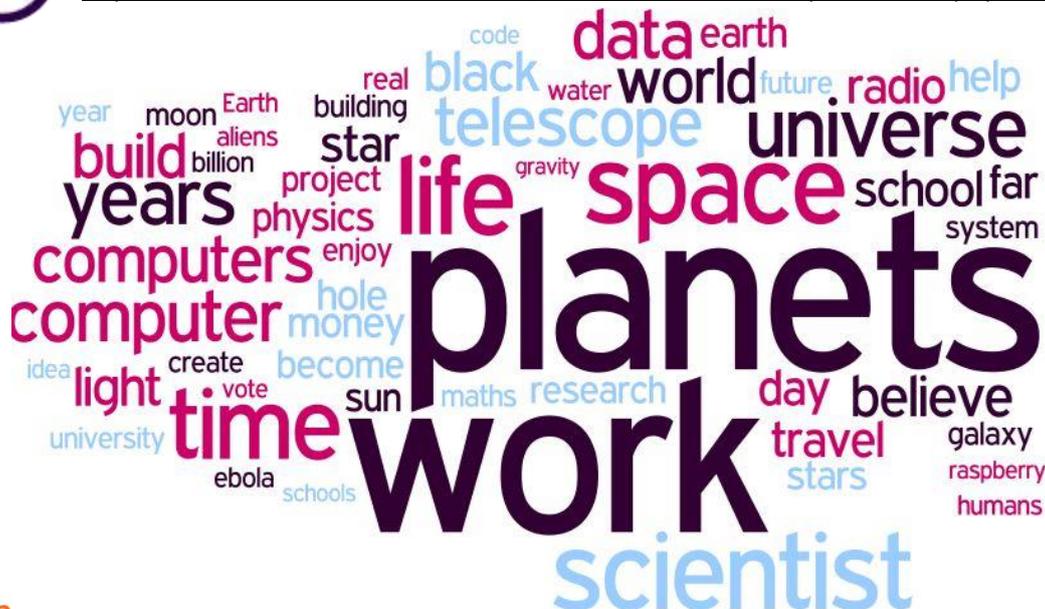
### Popular topics

The most popular topics were related to Stefan and Anna's research. Stefan's profile description of "building planets" really piqued students' interest and garnered a large number of questions. There were also a lot of questions about Anna's work with the radio telescope she is building. As a result there were a lot of questions focussed on the theme of space.

There were not very many questions about the subject of Big Data itself, but more about its different applications. Outside of this, general questions about science, career, and personal preference questions dominated.



Keywords from live chats in the zone (the size of the word represents its popularity)



# Ask ?

Keywords of questions asked in the zone

<b>Keyword</b>	<b>Number of times</b>
research	67
career	37
space	36
quirky	31
personal	29
preference	28
planet	28
technology	27
telescope	23
body	23
future	21
hobby	18
education	14
universe	14
I'm a Scientist	13
discovery	12
inspiration	11
science-	
communication	10
raspberry-pi	10
alien	9

## Example questions

"Can you give me an insight into plasma? What is it? How is it formed? How powerful is it? Is plasma currently on our planet?"

"What does a Hadron Collider do and how does it work?"

"Why don't the oceans freeze?"

"What are infrared telescopes and are they similar to radio telescopes?"

"Is there ever 'too' much data for you to handle?"

"How big are the supercomputers?"

"What happens when galaxies collide with one another?"

"how much data can the worlds biggest computer store?"

"if protons and neutrons are made of quarks, what are electrons made of and what exactly are quarks and what are they made of?"

"How much data can raspberry pi hold?"

"Do you think that computers will become smaller but still hold the same amount of data? Maybe even the size of a watch?"

"Dear Jodi, How can methods from evolutionary biology be used to classify computer programs?"

## Examples of good engagement

All of the scientists had an enthusiastic and engaging tone; Stefan was particularly notable for his engagement with the students, attending every chat and answering question intelligently and with wit. Anna also drew a lot of questions and was quick in giving them an answer. All the scientists were happy to explain their job in detail when students asked about specifics:

*“how many times did it take you to find the higgs boson”* – Isaac D student

*“It took the physicists lots of tries to find the Higgs. What they do is figure out what the results would look like if there were no Higgs, and then to collide many many things together and compare the real results with the predicted 'no Higgs' world. They found a bump of extra readings in one place which is the Higgs.”* – Rob Appleyard Lines, scientist

## Scientist winner: Stefan Lines

Stefan’s plans for the prize money: *“with the money I would be able to provide a few schools with a modified R-Pi for Metereological purposes, allowing students and teachers the opportunity to collect temperature, pressure and humidity data from their own grounds. The opportunities from here are almost endless – students could learn to do simple programming to manipulate or display the data, use the data for statistical analysis in science classes, or even just publish the data to the web allowing the whole school to see the weather in real-time.”* [Read Stefan’s thank you message here.](#)



## Student winner Tiffany5567

For asking great questions demonstrating both impressive knowledge and curiosity and having read the scientists’ profiles, **Tiffany5567** will receive a £20 WH Smith voucher and a certificate!

## Feedback

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

*“you seem so so clever, thanks for answering my questions amongst everyone else as well”* – student

*“Thank you for your answers I really like science as its interesting and you get to find out new things.”* – student

*“I found myself regularly being caught out by the most fundamental questions, which was fantastic, because I was provoked into researching the answers.”* – Stefan Lines, scientist

*“Much more engaging than pretty much every widening participation event i've been involved in ... the students seemed excited and energised.”* – scientist