















November 2018

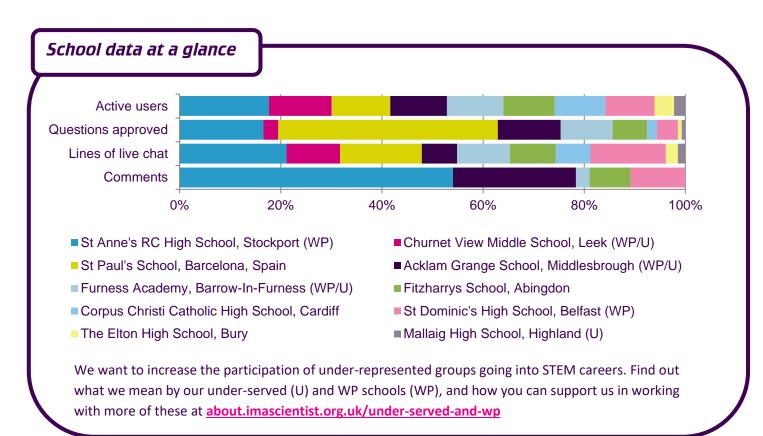
The Sleep Zone was a themed zone supported by The Physiological Society and featured six scientists:

- Yousef Algurashi is a doctoral student researching sleep and treating patients with sleep problems
- Rachel Sharman, the winner of this zone, is at the University of Oxford looking at sleep medicine interventions in adolescent sleep and digital therapy for insomnia
- Petrina Lau, from MRC Harwell, researches sleep and how it relates to disease conditions
- Michael Ambler is trying to understand why animals hibernate to see if it would be possible for humans
- Jason Ellis is a professor of sleep science and is trying to understand what happens in a person's brain when they are sleeping
- Emma Gale is currently a postgraduate student in sleep medicine at the University of Oxford

Extra resources

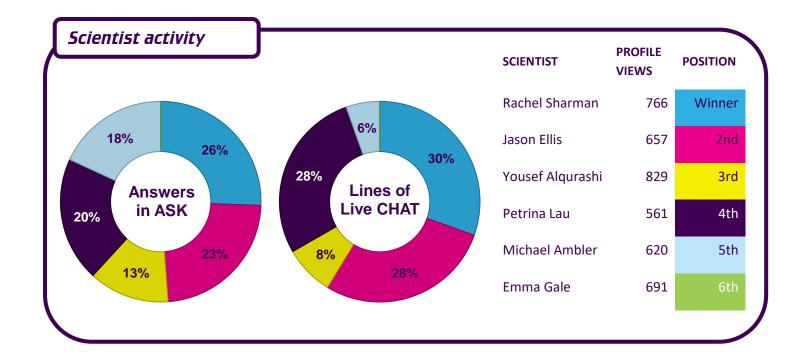
In the Sleep Zone we asked scientists to answer an extra question – 'What's the most important thing about sleep?' – on the interview section of their profiles. Featured on all student profiles was a list of 'Tips for a good night's sleep' and a 'What type of sleeper are you?' quiz, where students could find out their sleep chronotype.

We also gave teachers a link to some extra teaching resources provided by Hayley Moulding, sleep researcher and PhD Student at the MRC Centre for Neuropsychiatric Genetics and Genomics, Cardiff University. These resources included a Sleep Diary, the above mentioned chronotype questionnaire, activities for younger students and links to NHS advice on sleep and tiredness.









Key figures from the Sleep Zone and the averages of the November zones

PAGE VIEWS	SLEEP ZONE	NOV '18 ZONES AVERAGE
Total zone	23,002	18,272
ASK page	2,712	1,482
CHAT page	1,901	1,443
VOTE page	1,122	742

Popular topics

Students were very interested in the zone's theme, asking questions such as "Why do people sleep walk?" and "How long can people go without sleep?".

Compared with other November zones, Sleep had the most questions about the theme, and less about careers and university.

There was lots of discussion using the term 'brain' in live chats, usually relating to Jason or

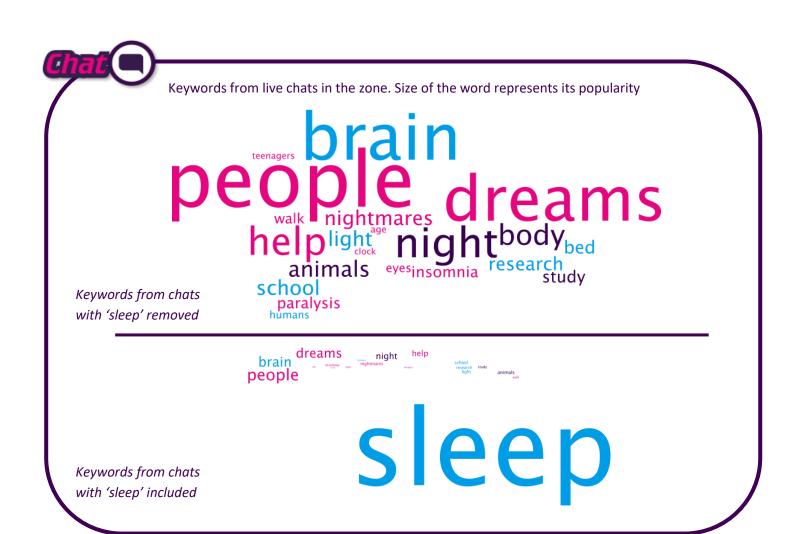
	SLEEP ZONE	NOV '18 ZONES AVERAGE	
Sleep Zone Schools	10	10	10
Students logged in	542	471	391
% of students active in ASK, CHAT or VOTE	91%	87%	86%
Questions asked	1,092	711	690
Questions approved	410	337	302
Answers given	254	585	539
Comments	51	57	74
Votes	536	378	307
Live chats	23	21	16
Lines of live chat	9,156	8,300	5,642
Average lines per live chat	398	395	358

Rachel's research areas. 'Dream' was another popular topic, with students wanting to know why they did, or didn't dream, or what their dreams might mean.

In ASK, 'animal' and 'hibernation' were common keywords in questions asked to Michael about his research, but also to the other scientists, linking their work such as "Why don't animals sleepwalk?" asked to Jason.









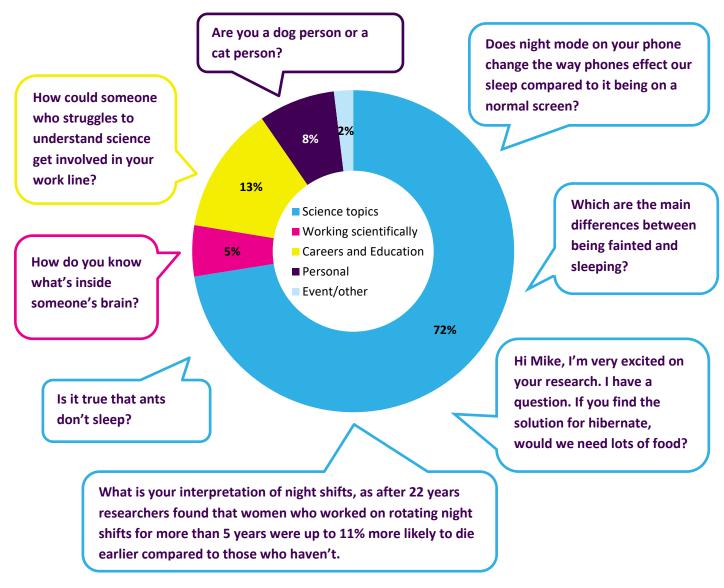
Top Keywords of questions approved in the Zone

l'm a Scientíst	animal	hibernation	sleep	Sleep disorder	career	experiment ioh	מטנ	
	brain	human body	sloon	time	research	scientis	scientist	
	dream	night	sleep pattern		school	rk		
		science	teenager			work		
		Event/other Scien	nce Being a	scientist				



Question themes and example questions in the Zone

Find out about how we've coded the questions at about.imascientist.org.uk/student-question-coding



Examples of good engagement

Students were really engaged with the zone theme and had lots of questions about sleep and how they can get sleep better. The scientists were great at giving advice as well as explaining how our bodies work in regards to why we need to sleep.

"How can I get better sleep?" — Student

"Well, making sure that you put the day to bed before you go to bed is a great start. Set some time for relaxing stuff about an hour before bedtime. The other thing is not to try to sleep...doesnt work!" — Jason, scientist

"Why do i feel like i have barely got any sleep on weekdays but sleep to around 10 a.m. on weekends? Is it because my body knows that there is no school?" — **Student**

"Great question. As we go through puberty our body clock moves backwards so we want to go to bed later and get up later...the difficulty is that school starts and we have to get up. Then at weekends we try to catch up on our sleep." — Jason, scientist

"Ok, thanks. Hopefully i can get to bed without a massive pile of homework!" — **Student**



Students were also interested in the scientists' individual work areas, for example in this conversation where Michaek gave an informative and honest explanation of his work in intensive care.

"What is it like working in intensive care?" — Student

"Working in intensive care is great.... we get to look after all sorts of differnt patients with differnt problems. and we get all the best most interesting machines to help keep people alive. it is a real privilege to try to help patietns and their familes get through what is usually the worst thing that has ever happened to them. obviously it can be hard work with long hours and lots of night shifts, and when people die it can be upsetting but you get used to the ups and downs, and when things go well it makes it all worth it." — Michael, scientist

Scientist winner: Rachel Sharman



Rachel's plans for the prize money: "help me and the rest of the Teensleep team to go to a few local schools and show students how to measure sleep and help them design and run their ideal sleep improvement intervention for their schools."

Read Rachel's thank you message.

Student winner: Sophie

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

Feedback

We're still collecting feedback from teachers, students and scientists but here are a few of the comments made about the Sleep Zone...

As a woman in science, first generation university graduate, and a person with dyslexia it was great to be able to chat about my science journey with students. – **Rachel, winner**

There are many interesting topics and things I did not know before. I'm a Scientist helped me answer a lot of questions that I've been wanting to ask and know the answer to. – Student





Feedback

Here are a few of the comments made about November's I'm a Scientist activity...

The students were actually cheering when the first scientist answered a question. It was a fantastic moment. – **Teacher**

I have learnt about other scientists' lives and that even if they are scientists they have the same life as us. – **Student**

students from a wider variety of backgrounds than any single real-life event. – **Scientist**

The whole event probably involved more

I have learnt that many scientists did not have any clue as to what they wanted to be when they left school. – **Student**

I would like to say thank you. Friday when our children went on the live chat, there was so much excitement with the children when they saw the scientist replying. The buzz they got from it was fantastic. It is a long time since I've seen children buzzing from science. – **Teacher**

I have learned that science isn't just sitting with some test tubes pouring them into a big pot and that they are real, rather interesting jobs that I could consider going into. – **Student**

