

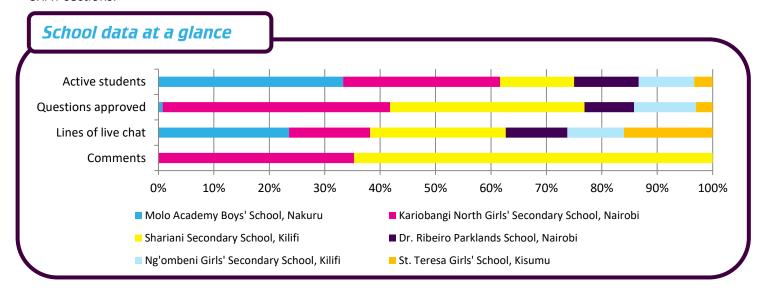


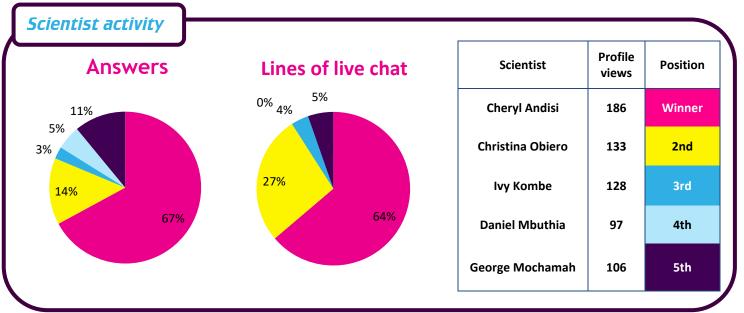


The January 2017 event was the second time the I'm a Scientist project has been run in Kenya, and the first event to reach schools outside of Kilifi, with schools from Nairobi, Kisumu, Nakuru and Kilifi taking part in the Zone. This is the second time we have run a Health Zone in I'm a Scientist Kenya.

Cheryl, the winner of the Health Zone, is a lecturer in Biology, and researches malaria resistance, and parasites which cause malaria. Ivy works in mathematical modelling of infectious diseases, using maths to understand how diseases spread, and George works on sickle cell disease. Daniel's work looks at the ethics of health research, while Christina is a medical doctor leading a research study into a vaccine against diarrhoeal disease.

The Health Zone was the quietest of the three zones run this January, with the fewest schools taking part, and therefore questions asked. The engagement among the schools and scientists though was good. Students in the zone were engaged and focused their questions largely around health research, though also touched on subjects such as space, gravity, and physics. Cheryl provided nearly two-thirds of the scientist activity in the zone in both the ASK and CHAT sections.









Key figures from the zone and the averages of the January 2017 zones

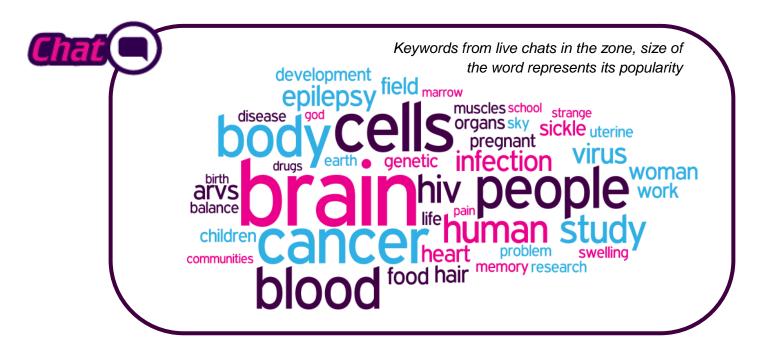
PAGE VIEWS	HEALTH ZONE	JAN '17 ZONES AVERAGE	
Total zone	4,478	5,266	
ASK page	543	1,047	
CHAT page ³	245	467	
VOTE page⁴	142	259	

Popular topics

Most questions asked in the zone centred on the health theme. The brain, cancer, and blood were all popular topics of discussion. Students asked questions about the body, HIV and AIDS, gender differences, personal health, as well as sex and sexuality.

There were also more general questions asked in the zone, such as "why is the sky blue?", "how many atoms does it take for something to become visible to the naked eye?", as well as questions about gravity, and the alternate universes.

	HEALTH ZONE	JAN '17 ZONES AVERAGE	2014 EVENT ¹
Schools	6	7	10
Students logged in ²	74	95	136
% of students active in ASK, CHAT, or VOTE	81%	85%	86%
Questions asked	144	395	487
Questions approved	134	189	282
Answers given	163	146	203
Comments	19	16	89
Votes	127	156	298
Live chats	6	7	10
Lines of live chat	576	986	1,051
Average lines per live chat	96	131	105



¹ Numbers for the 2014 event are generally higher. This is possibly due to 10 schools taking part in a single zone in 2014. In 2017, 22 schools took part across 3 different zones, with fewer schools taking part in each zone.

⁴ VOTE page view count may be lower than expected. A number of votes were sent through SMS from the teacher.



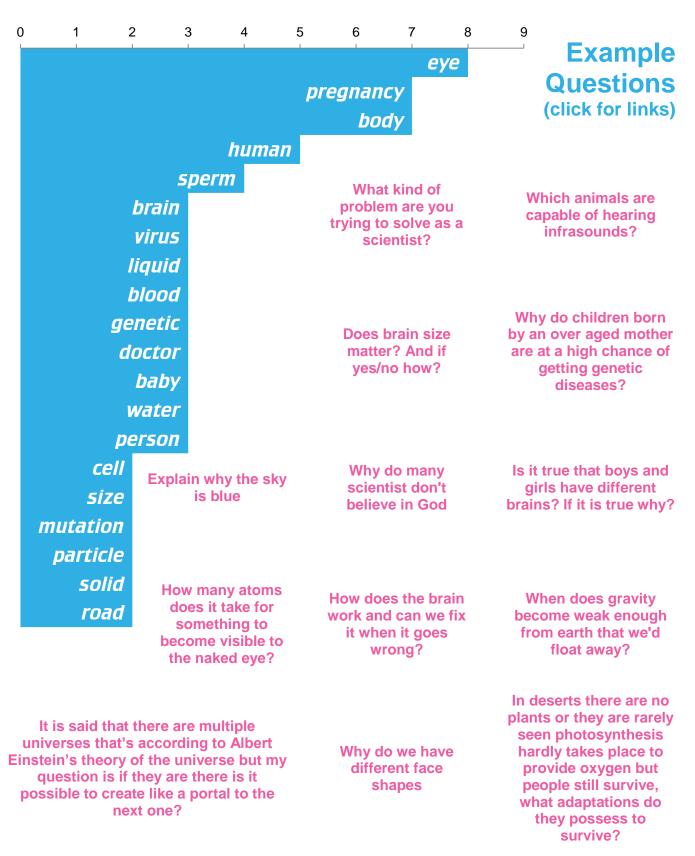
KEMRI Wellcome Trust

² In the 2014 event we measured "registered students", rather than "students logged in". The login process for students has changed between events, the numbers look at roughly the same thing though.

³ CHAT page view count may come out lower than expected as a number of chats happened on the back up chat, which was hosted on a different server.



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





Examples of good engagement

Cheryl, especially, answered a lot of questions in the zone. The scientists always answered in an engaging and friendly tone. There was a lot of discussion about brains in the zone, such as this question about the role of brain size, and gender differences...

"Is it true that boys and girls have different brains. If it is true why?" — Janel, Student

"@Janel, Interesting question! There have been a number of questions on this forum, which I hope you can read through asking about brain size and whether it matters. The brain size in males is bigger than that in females. Whether that translates into functional differences is a different question all together. Women have been said to be able to carry out multi-tasking compared to boys, talk more, and better at grasping languages etc... when you go medical schools, or most senior positions you will find more men. I do not think that this translates to better cognitive abilities in men. Now, with equity, women are shown to do just as well as men, or even better (remember KCSE 2016 results? yaay!!) So I'd say it doesn't matter if you are me or female, work hard and your brain won't let you down" — Cheryl, Scientist

"That is nice" — Janel, Student

Students were also not afraid to say when they didn't understand an answer, and ask for a better explanation, such as this question on cancer from a live chat...

"Can we know how cancer manifest itself in a person's body?" — zwingling hazel, Student

"@zwingling hazel Cancer, of whatever kind will be caused by an abnormal rapid cell division ie mitosis. this might lead to functional problems of the organs and tissues affected. but the specific manifestations will differ between cancers." — Cheryl, Scientist

"Thank you but the answer is not understandable please we need further explanation" — zwingling hazel, Student

Cheryl goes on to better explain her answer, and the students say they understand better. When Christina joins the chat, Cheryl asks if Christina can provide a different point of view...

"@Christina Do you have something, from the medical side of things especially on the cancer question?" — Cheryl, Scientist

"@zwingling hazel Manifestation of cancer generally depends on the type of cancer and the body parts affected. There are those general signs and symptoms that a person with cancer would have e.g. weight loss, anaemia (low haemoglobin), poor appetite... For example, if someone has brain cancer they may present with headache and dizziness due to the pressure of the cancer on other brain structures, convulsions, abnormal movements of the hands and legs, abnormal gait (walking abnormally), vomiting due to increased pressure in the brain. If the cancer has grown in parts of the brain that are involved in vision then the person may have poor/blurred eyesight or become blind..." — Christina, Scientist

Scientist winner: Cheryl Andisi

Cheryl's plan for the prize money: "I'd involve my students at Pwani university in engaging primary schools within Kilifi. Most of the public engagement with science in Kilifi has been done with secondary schools. I am interested in changing the perceptions towards science in both my students at the university and possibly with a few local primary schools." Read Cheryl's thank you message.



Feedback

We're still collecting feedback from participants and we will be running some focus groups in April/May 2017. These are comments from initial feedback...

"The students loved the part where their asked questions and instant answers, this created a lot of curiosity and students opened up and asked questions they could not share with their teachers and colleagues." — Teacher, Molo Academy, Nakuru

"They liked the way scientists displayed their profiles, photos and they really enjoyed reading their profiles. They loved interacting with the scientists through computers." — Teacher, Ng'ombeni Secondary, Kilifi

