STEM EDUCATION WITH DR LIZ JOHNSON

TALKING POINTS

KNOWLEDGE:
1. Which subjects make up the acronym STEM?
2. Who is Southern Research’s STEM Education Outreach programme aimed at?

COMPREHENSION:
2. Can you name some ways the programme tries to help students?

APPLICATION:
3. How can STEM education prepare students for the modern world?

ANALYSIS:
6. What are some of the motives behind Liz’s work?
7. What do you think are the main benefits of Southern Research’s outreach programme?

SYNTHESIS:
7. Imagine you are a STEM educator. What skills or messages will you try to teach your students? How will you do this?

EVALUATION:
8. How would you assess the success of a programme such as Southern Research’s?
9. How would you benefit from taking part in such a programme?

ACTIVITIES YOU CAN DO AT HOME OR IN THE CLASSROOM

SOUTHERN RESEARCH STEM EDUCATION OUTREACH PROGRAMME

Virtual Learning
Southern Research’s STEM Team has put together a series of virtual learning videos that will help you learn more about the world around you: https://southernresearch.org/stem/virtual-learning/

There are videos on combustion chemistry and the science of soap!

MAKE A CIRCUIT!
See if you can meet Liz’s challenge of making your own LED paper circuit. A Southern Research PowerPoint with all the instructions you need is on the Futurum Careers website:
www.futurumcareers.com/how-can-stem-education-provide-light-bulb-moments

MORE RESOURCES

This video explains more about the STEM Education Outreach programme. Hear about the aims of the programme, see the lab and imagine how it would feel conducting research in such an exciting environment!
https://vimeo.com/452559287

You can find out about the different elements of the programme here:
https://southernresearch.org/stem/