CYBERSECURITY WITH DR TED ALLEN

TALKING POINTS

KNOWLEDGE & COMPREHENSION:

1. What is the Internet of Things?
2. What is a computer bug?
3. Why is it important for researchers to find a means of protecting against cyber-attacks?
4. What are some of the limitations with current cybersecurity methods?
5. Why is it unfeasible to test every part of a computer when looking for bugs?

APPLICATION:

6. How might some of Ted's systems help deal with cyber threats?
7. How does Ted apply skills and techniques from mathematics to deal with issues in computer science?
8. What problems would occur if an individual or organisation had their computer system hacked?

EVALUATION:

9. Ted talks a little about how some of the skills required for a career in cybersecurity exist well beyond the realm of mathematics – how do your skills, knowledge and interests fit within some of his suggestions? Why do you think it is important that the field of cybersecurity includes people with many different areas of interest and expertise?

ACTIVITIES YOU CAN DO AT HOME OR IN THE CLASSROOM

- Create a publicity campaign to educate your classmates about how to protect their computer and social media accounts from cyber threats. Ted has provided some tips for keeping your computer secure, but what other advice would you give people? How will you communicate this information to your audience?

- Cyber-attacks come in many shapes and forms. Research the different types of cyber threats that individuals or organisations may face, create a list of them, and provide a definition of each type of attack.

MORE RESOURCES

- Visit Ted's website to learn about the range of computing activities his research team conducts: **www.blying.com/index.html**

- Here are some games that you can play which will put your cyber defence knowledge to the test! **www.helpsystems.com/blog/break-time-6-cybersecurity-games-youll-love**