Year 6/7 Summer Term 2

Should we fear the power of robots?

Learning Planner

This Summer, Year 6 will be studying how robotics has the potential to enhance human life, through medicine, advancements in technology and industry. The children will be looking at how robotics currently affect their lives and how industries around Stoke-on-Trent such as JCB, Wade Pottery etc are currently used. At the same time, the children will be asking the question: Are there any ethical implications with the use of robots?

Connect & Wonder

- Introduction to the topic allowing a conversation with Robotics expert in the field of medicine, who will discuss the use of robotics. They will then introduce the project ahead.
- Children will be learning what a robot is and considering the encounters of robotics they have experienced in their lives on a daily basis.
- Children will be exploring local companies, such as JCB and various pottery companies to see the impact robotics on their production output.

For the Love of Reading

Cogheart – Peter Bunzl

Some secrets change the world in a heartbeat. Lilly's life is in mortal peril. Her father is missing and now silver-eyed men stalk her through the shadows. What could they want from her? With her friends – Robert, the clockmaker's son, and Malkin her mechanical fox – Lily is plunged into a murky and menacing world. Murder, mayhem and mystery meet in this gripping Victorian adventure.

Treasure Island – Robert Louis Stevenson

A tale of buccaneers and buried gold!

Investigate & Construct

- **Geography –** Children will investigate the connection between More Economically Developed Countries and the use of robotics. As well as this, the children will produce thematic maps to display the use of robotics around the world.
- **History –** We will explore the chronology of the history of robotics, creating a timeline of technological advancements. We will learn about past inventions and make predictions about future advancements, for example robots on Mars and medicine.
- **Science -** Children will use secondary resources to research the question 'How have technological advancements enhanced the quality of human life?
- **D&T –** Children will be given the challenge of designing and making a robot to enter into 'Robot Wars' They will also design a robot that will somehow contribute to modern day living.
- **Computing** – Input and output exploration, learning about physical computing to create a robot.
- **PSHE –** Children will explore the ethics surrounding the use of robots.

Express & Reflect

Through the design and technology project, the children will host an exhibition to showcase their project in a variety ways, however they choose. This will highlight the potential of technology.

Key Vocabulary

Robotics	Production
Technology	Advancements
Industry	Potential
Ethical	Economically Developed
Invention	Enhancements
mechanics	