

STEM Resources

Introduction

Use starter questions to get pupils thinking about electricity.

They could either discuss, draw a picture or write answers. Suggested questions include: Where does your electricity come from? What do you use electricity for? How does electricity get to our houses, our school, the shops and offices...etc

Get pupils to think about what it would be like if there was no access to power.

Suggested questions include: How would you make dinner if you didn't have electricity? How would you travel without power? How would you charge your mobile devices/play your Xbox?

Ask pupils to think about what an engineer is and how an engineer and power are connected.

Discuss with students where power comes from and how engineers get it to you.

Suggested questions include: What does an engineer do? Why does an engineer get involved with electricity? What do you think they need to do to get electricity to your house or school...etc

Talk about engineers that help to make sure the wires, cables and pylons that bring electricity all over the country. And introduce the video: Finding out a little more about the day in the life of an engineer!

Play video one: A day in the life of a STEM engineer

Ask pupils to think about what skills were shown in the video and are needed to be an engineer?

Probing questions: what teamwork did you see? How did they solve problems? Is this what you thought an engineer would do? Does anyone want to be an engineer in future? What subjects do you think you'd need to take to give you the right skills?

Play video two: A day in the life of a rugby player.

What are the similarities between being a rugby player and an engineer? What skills did the players use? How do rugby players stay healthy and fit? What technology did they use? Is this what you thought a day being a rugby player would be? Does anyone want to be a rugby player when they grow up?