







## Learning Objectives

- To identify risks associated with electricity
- To draw conclusions about safety risks from data
- To be able to communicate hazards associated with electricity to target audience







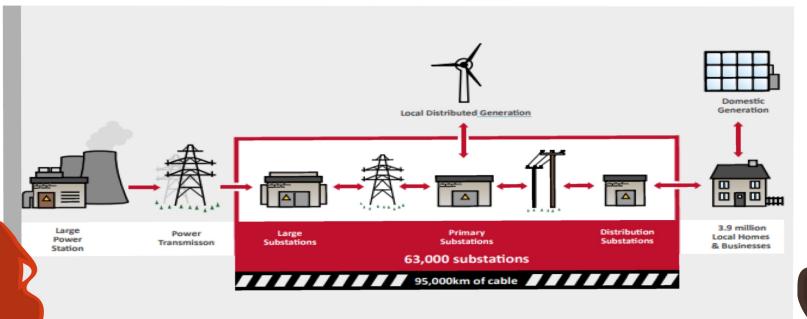
# Who are Northern Powergrid?

You may not know who we are but we keep the lights on, the kettles boiling and the phones charged for 8 million people across the Northeast, Yorkshire and northern Lincolnshire.

Put simply, we make sure the electricity you buy from your energy supplier gets to you safely, whenever you need it. And, if your power ever gets interrupted, for whatever reason, be it extreme weather or emergency maintenance, we'll be there immediately to fix it.







Where we fit in the electricity industry

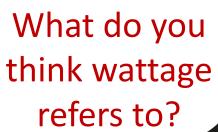












Which has the higher wattage?

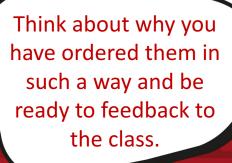












Worksheet 1: Order the pictures from the highest to lowest wattage.

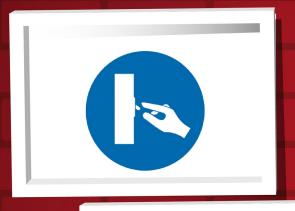
Put them into a hierarchical pyramid.



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Look at the symbols below.
What does each one mean?
Extension activity: Where
might we see these?









Switch off when not in use

CAUTION (electric voltage)



Symbols and their meaning



Danger of Death







Spot the hazards

Can you see all 4 hazards?

- 1. Overloaded power strip
- 2. Electrical equipment near a water source
- 3. Unattended child near a plug socket
- Kitchen appliance with a frayed wire







#### Extension

What other household electrical hazards can you think of?











What Are They?







READ, PAIR, SHARE.
What makes electricity
dangerous?

Read the article provided and in pairs discuss with a pair: what makes electricity dangerous from a scientific point of view?









This symbol is often seen outside the home. The Danger of Death sign means that there is a risk of electrocution and that you should not get too close to where it is displayed as you could get an electric shock that could cause a serious injury or even death.









Can you name any electricity dangers outside of the home?









Dangers Outside The Home:

**Roleplay Activity** 



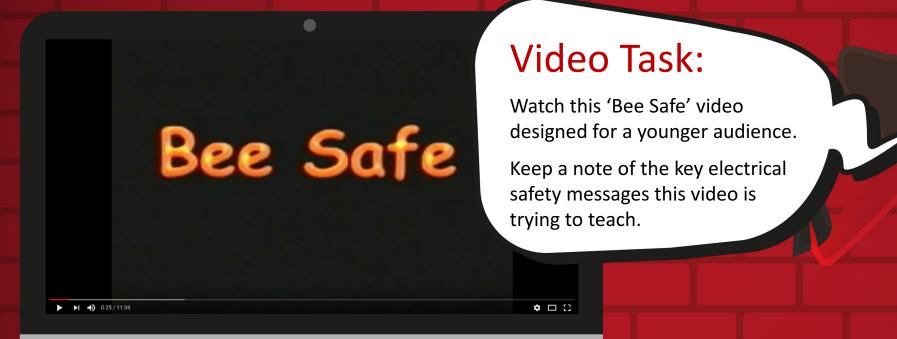




LESSON TWO: Risks/ Hazards



















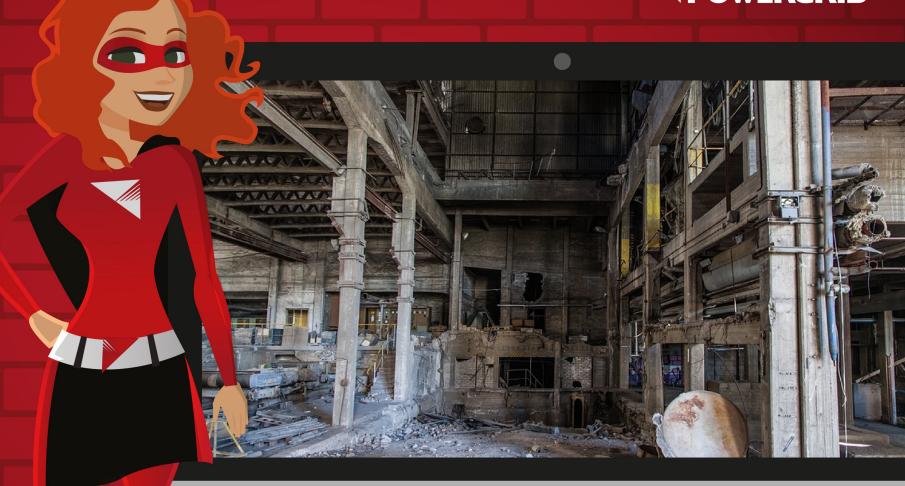




#### Video Task

You have been asked to create a video highlighting the dangers of urban exploration with an emphasis on electrical equipment. We want to hear your ideas!

Work in groups to research, plan and create/ act out your video.







### Plenary

We are going to share our videos/ ideas.

Think of two positive comments about each group's video as well as a comment for improvement.

