

Maths

**How can we make
the most of our
radiators?**

LO: To plan, measure and cut the foils for our radiators.



Teacher notes

This lesson presentation and the lesson plan it accompanies, are adaptable for KS1; LKS2 or UKS2. Therefore, they will need to be carefully read through and edited to ensure they are suitable for your pupils.

For example, Success Criteria and vocabulary will need to be edited in some cases.

Alternatively, the lesson can be used with a mixed age range.

The first part of the Science lesson must be started *before* this lesson. E.g. Before the foils are installed.

Success Criteria

- *See Lesson Plan*

Maths Starter

See Lesson Plan

Vocabulary

Theme words

Radiator

Heat

Warmth

Insulator

Conductor

Maths vocabulary

Regular polygons

points, lines, parallel
lines, perpendicular lines,
right angles

Area

Perimeter

Can you make an estimate of how much foil you will need before you start?

What would be the best unit of measurement for this activity?

Key questions

What would be the best measuring tool to use?

What will you need to check?

Look at the radiator in your classroom.

- How will you measure its area?
- How will you measure its perimeter?
- Would it be appropriate to make a paper pattern first?
- How will you make sure you create right angles on your foil?
- How will you make sure you are safe?

Task

- If you have decided to make a paper pattern first, measure, draw and cut the paper.
- Then pin or tape it to your foil.
- Measure, draw and cut your foils.



Plenary questions:

- How do you think the foils will affect the temperature of the classroom?
- How will this affect the schools use of energy?
- **Why is this important in terms of climate change?**