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| **Topic** | What is science? | **Level** | GCSE |
| **Outcomes**  | 1. To consider what science and the scientific method is
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What is science? A simple demonstration

**Aim:**

The purpose of this simple demonstration is for students to begin to think about the questions – what is science and what do scientists do? Students are asked to make a prediction about what is inside a tin can and then test this prediction by ‘experimentation’.

**Apparatus:**

* Tin of beans and tin of peas with labels switched
* Beaker
* Tin opener

**Method:**

1. Get the class to close their eyes
2. Ask the students to think about the following questions:
	* What is Science?
	* What is it that Scientists do?
	* What is the point of studying Science at school?
3. Get individual students to provide answers to these open questions. Put ideas on the board
4. Take a tin of peas with a baked bean label on it.
5. Ask students to predict what is inside the tin
	* How will they test this prediction?
6. Open the tin and pour out the peas into a beaker.
	* Was the prediction correct?
	* Have we proved that there are no baked beans inside the tin?

🡪 Science is about making predictions using learned knowledge. In this example a prediction is made based on the labelling on the tin. These predictions are then tested by practical experimentation, in this example by opening the tin.

Science is a subject that involves making predictions (hypotheses) and then testing them. Science is about having good ideas that can be tested.