In the video, Tim talks about teaching science in primary schools. He says that practical work is important because it’s enjoyable. He also says it’s best if practical work relates to everyday life.

**Procedure**

**Developing a primary science lesson**

Your task is to think up, then try out, a science lesson for 10-year-old primary pupils. The lesson should involve about 45 minute’s practical work for a group of three pupils.

Remember: primary schools have no science labs and only limited equipment. It is often possible to use simple everyday items instead.

1. Choose **one** of the following topics:
   - A  How to tell the difference between metals and plastics
   - B  Ways to separate various mixtures of two substances
   - C  Why the moon appears to change shape over a month
   - D  Identifying creatures found in pond water

2. Discuss the types of experiments or investigations that 10-year-olds could do with limited equipment.

3. Choose **four** simple experiments that they could do in about 45 minutes:
   - one experiment for each pupil to do individually – three in total
   - a fourth one for them to do together.

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4 For each experiment:

- write an introduction, explaining what the experiment is for, and how it relates to everyday life
- give a list of equipment and materials needed
- write simple step-by-step instructions for each experiment
- draw a labelled diagram, if it helps to explain what to do
- give health and safety warnings where appropriate – though you should not be suggesting anything dangerous for primary school pupils.

Note: Each member of your group should write instructions for one experiment.

5 Show your ideas to your teacher. You must not try them out until your teacher has checked them.

6 When your teacher says they’re OK, try out the experiments. Follow your own instructions carefully.

7 Make a note of any problems. Think about how to overcome the problems. Change the instructions as necessary.

8 Repeat steps 5 to 7 until you are sure that 10-year-olds could carry out the experiments easily, successfully and safely.

9 Write final versions of your instructions. Hand-in the complete set of four to your teacher.

Studying science and maths can transform your career options. Future Morph: become someone.