

Think



- What can you see?
- What are they doing?
- Where are they?
- Why are they doing this?

Respond



Find out about someone who invented something that has helped with the advancement of science. Who were they? What did they invent? When? How has it helped?

Reimagine



What might the view through the microscope look like?



Discuss



There are some very definite opinions about laboratory testing of products. Some people believe that products like medicines, make-up and cleaning liquids can be tested on animals, whereas some campaigners are against this. What do you think? Research the case for both and have a class debate about it.

Solve



There are 38 test tubes in the laboratory. The maximum volume is 22ml in each. Half of them are full, 6 of them are half full and 3 of them hold 6ml. The rest are empty. How much liquid is there in total in test tubes in the laboratory?

Discover



Fact: The first compact microscope was invented in the 1590s by Hans Jansen and perfected by his son Zacharias, who lived in the Netherlands. This microscope had the power to magnify from three to nine times.

Question: What other inventions were created during the late 16th and early 17th century that are still used today? Who were the inventors? How have they developed over time? Put together a fact file to share with others.

Microscope **Answers**

How much liquid is there in total in test tubes in the laboratory?

$$19 \times 22\text{ml} = 418\text{ml}$$

$$6 \times 11\text{ml} = 66\text{ml}$$

$$3 \times 6\text{ml} = 18\text{ml}$$

$$418\text{ml} + 66\text{ml} + 18\text{ml} = 502\text{ml}$$