

The background is a dark, textured surface, possibly a chalkboard, covered with faint, light-colored sketches. These sketches include a globe, a telescope, a microscope, a stack of books, a cross, a percentage sign, and various geometric shapes and lines. The overall theme is scientific and academic.

# To investigate shadows.

January 2021

## Success Criteria:

Objective: <b>To investigate shadows.</b>									
	Guided		Independent		Group/Paired		TA Guided		
<u>Success Criteria</u>							<u>Self</u>	<u>Peer</u>	<u>CT</u>
I can investigate changes in shadows depending on relative positions of the light source and object.									
I can plan an investigation, recognizing and controlling variables.									
I can take measurements with accuracy and precision.									
I can record results using scientific diagrams, tables and graphs.									

## Me and My Shadow

- What can you remember about shadows? Create a mindmap in your books.

## Shadow challenge

Lets hope it is a bright day or you will need a torch handy!

Can you make the shadow for a tennis ball and a football the same size?

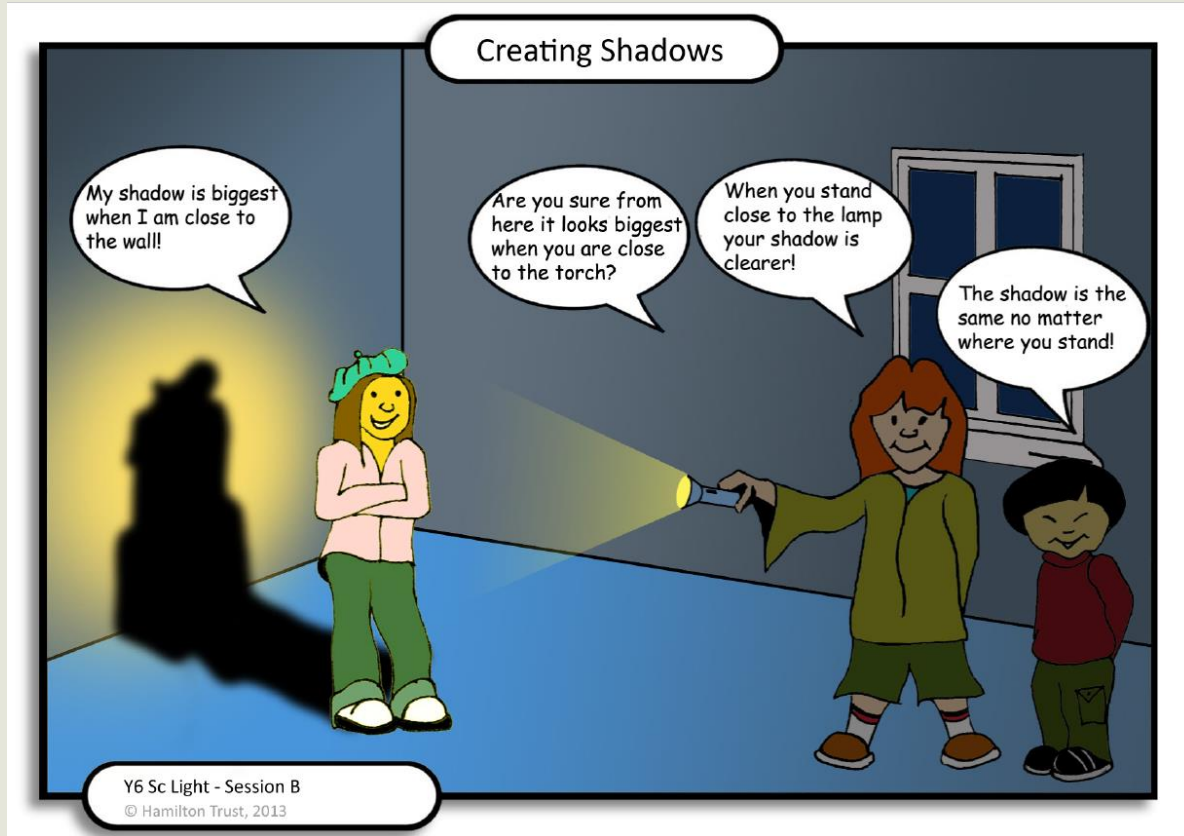
- What is your prediction?
- How will you record your results?
- What will you change?
  
- Complete the fair test plan on the next slide first please.



## Tasks – plan a fair test

- Plan an investigation – what is your question?
- What resources would you need?
- What is your control variable?
- What will you change?
- How will you measure?
- What do you expect the conclusions to be?
  
- Take photo evidence of your work please.

# Plenary



Reason your thoughts on this concept cartoon.

Complete all sections of the s/c

Objective: <b>To investigate shadows.</b>					
Guided	Independent	Group/Paired	TA Guided		
<b>Success Criteria</b>			Self	Peer	CT
I can investigate changes in shadows depending on relative positions of the light source and object.					
I can plan an investigation, recognizing and controlling variables.					
I can take measurements with accuracy and precision.					
I can record results using scientific diagrams, tables and graphs.					
<i>Note to Teacher:</i>					
<i>Complete the diagram to show the direction of light.</i>					
