

Periscope investigation — Investigation planner

Name: _____

Variables

Measure (M): The variable being measured is the quality of the image seen through the periscope.

List the possible changes you could make to the periscope.

Change (C): From the list above, circle **one** thing to change

Keep the same (S): List the things you will keep the same.

Investigation question — What is the question you are investigating?

What happens to the quality of the image seen through the periscope when I change

Predict — What do you think will happen and why?

If we change (C) _____

then (M) will _____

because _____

Equipment and materials

List the materials and equipment you require to complete the investigation.

Method

List the steps you will follow in order to test your change.

Make sure you check your method with your teacher before you carry on.

Observations

Record observations about the images you saw through the periscope.
Be sure to record observations before you make changes to the periscope so you can compare the observations.

Discussion — Why do you think you observed your results?

Explain how your observations match your prediction. What patterns did you notice in your observations?

Use these patterns as evidence to explain how your change affected the image seen through the periscope.

Include an annotated diagram to explain what happened.

Evaluation

Did you experience any difficulties completing the investigation?

Why do you think you experienced these difficulties?

If you were to repeat the investigation, what would you do differently and why?

Teacher feedback

