

Name: \_\_\_\_\_ School: \_\_\_\_\_

Class: \_\_\_\_\_ Date: \_\_\_\_\_

A. Around us we find different types of mirrors. We use these mirrors for many different uses.

1. Underline the correct answer.

A mirror is: (a source of light, reflects light).

2. Explain your answer.

\_\_\_\_\_

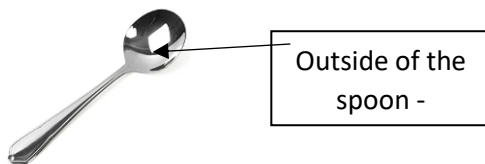
3. Give an everyday example of the use of a mirror.

\_\_\_\_\_

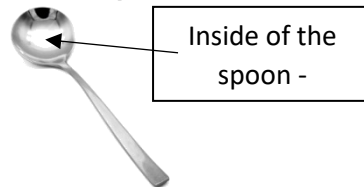
(3 marks)

Prediction:

B. Predict how your image will be seen when you look in the spoon from both sides!



\_\_\_\_\_



\_\_\_\_\_

(no mark)

**Investigation 1:**

C. Use the plain mirror and a spoon from both sides to look at your face.

Match the correct observations to the name of the mirror in the table below.

1.	Plain mirror		Reversed and widened image
2.	Spoon (inside)		Reversed and inverted image
3.	Spoon (outside)		Reversed image

(3 marks)

D. Using the investigation in question 2 to help you, why do you think that this police car has the word 'Police' written in reverse?



(2 marks)

E. Use a mirror to read the following sentence.

Now write it down correctly.

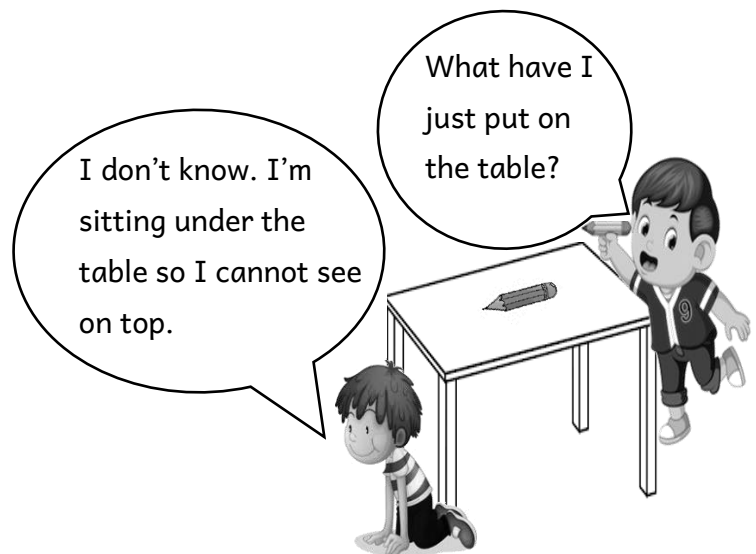
**Leonardo Da Vinci wrote all his notes in mirror writing.**

(1 mark)

### Investigation 2:

F. In the following investigation, you have to solve a problem by using what you know about mirrors. You will need to work in groups!

1. Sit underneath the table. Another student will place a picture on top of the table near the edge. Use one mirror to see the picture on the table.
2. Draw what you see in the box below.



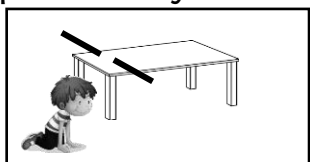
(2 marks)

**Prediction:**

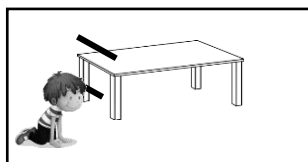
G. The boy in the pictures is using two mirrors to see what is on top of the table through the lower mirror.

One picture has the correct positioning of the mirrors to see the image in the correct direction.

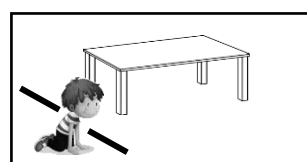
1. Which picture do you think is the correct one? Circle the correct answer.



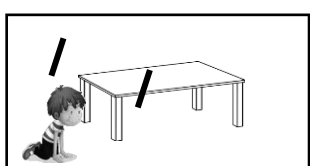
1.



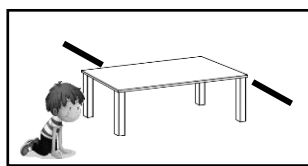
2.



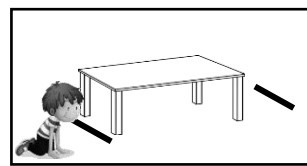
3.



4.



5.

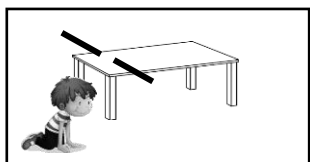


6. (no marks)

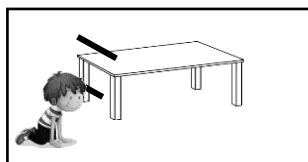
**Investigation 3:**

H. Now use two mirrors to look at the picture on top of the table in such a way to see the image in its correct position.

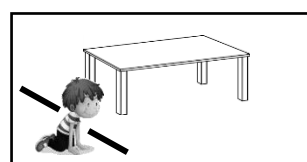
1. From your investigation which of the following pictures shows the correct position of the mirrors?



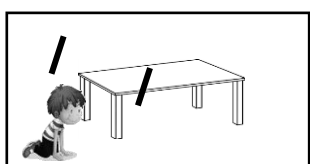
1.



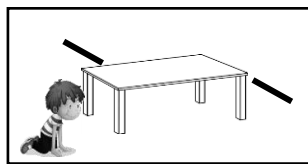
2.



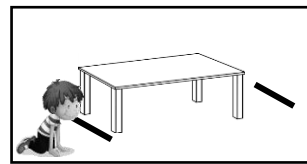
3.



4.



5.



6.

(2 marks)

2. The image in the lower mirror is neither reversed nor inverted. Explain why.

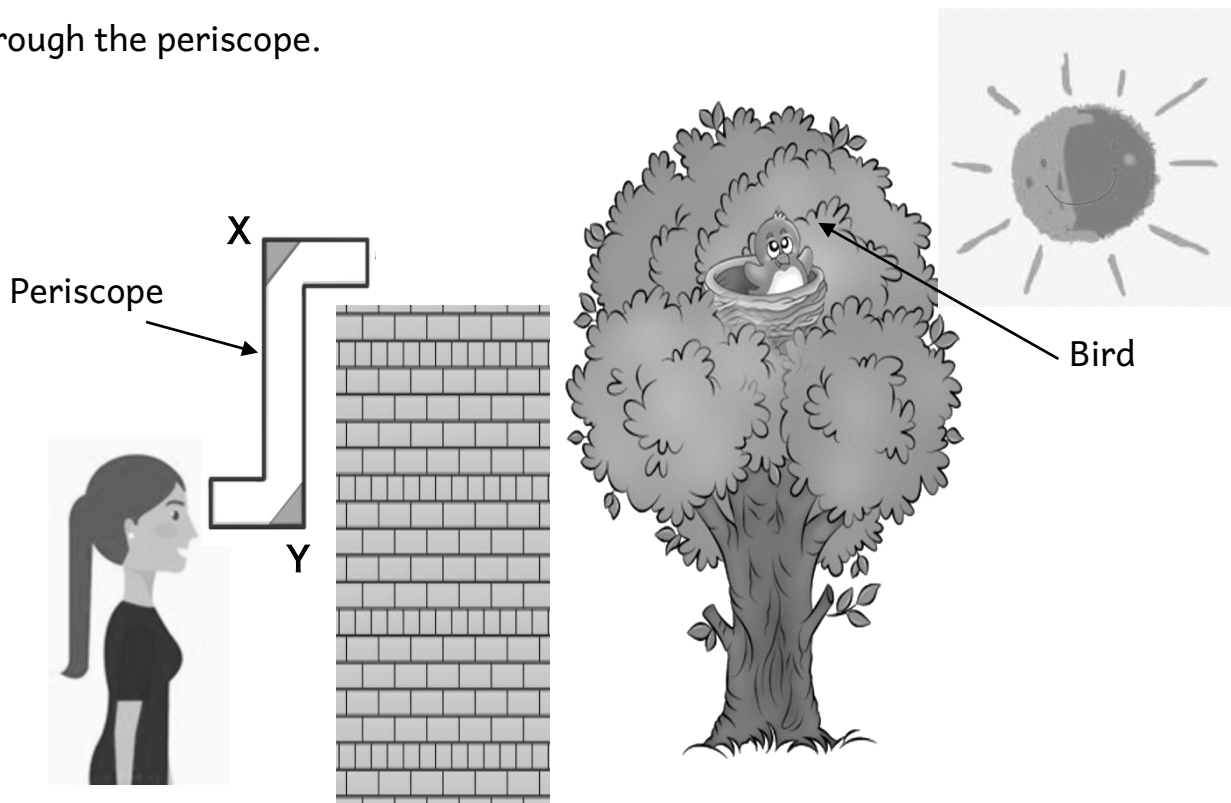
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(2 marks)

I. Draw 3 lines on this diagram to show how the person sees the bird in the nest through the periscope.



(3 marks)

1. What needs to be placed inside the periscope at point X and Y in the above diagram?

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(1 mark)

2. Why is the barber holding a mirror behind a man? Explain briefly.



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(1 mark)

End of Investigation