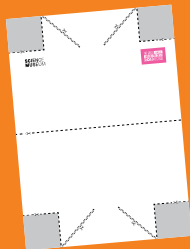


## 360-DEGREE PERISCOPE

See over walls, around corners and all around with this 360-degree periscope!

### YOU WILL NEED:

- Periscope template
- Two small craft mirrors
- Tape
- Scissors
- Printer
- A4 card
- Glue stick



### TOP TIP

- If you can't find craft mirrors you can also use reflective card, compact mirrors or even old CDs.

### THINK AND TALK ABOUT...

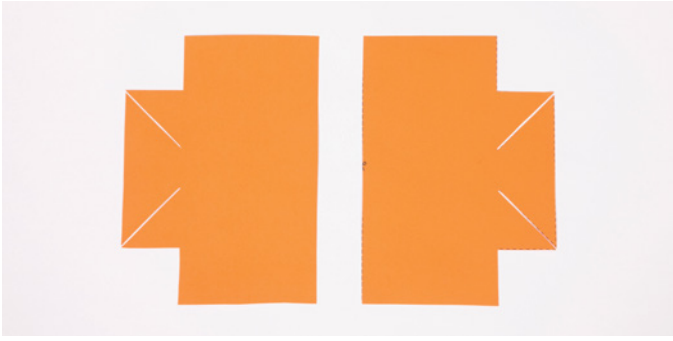
- What can you see when you look through your periscope?
- Describe what you think is happening when you look through the periscope.
- Where else do we use mirrors to help us see things we otherwise wouldn't be able to?

### INVESTIGATE...

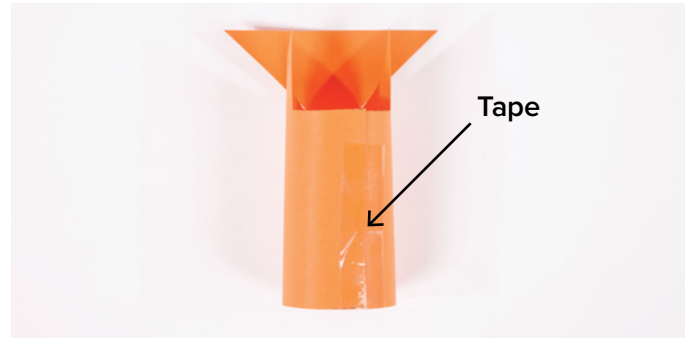
- How much taller can you make your periscope before you stop seeing the reflection?
- Shine a torch into the periscope's eyepiece and place the other end next to a wall. What do you see?
- Can you make a periscope with three or more mirrors?



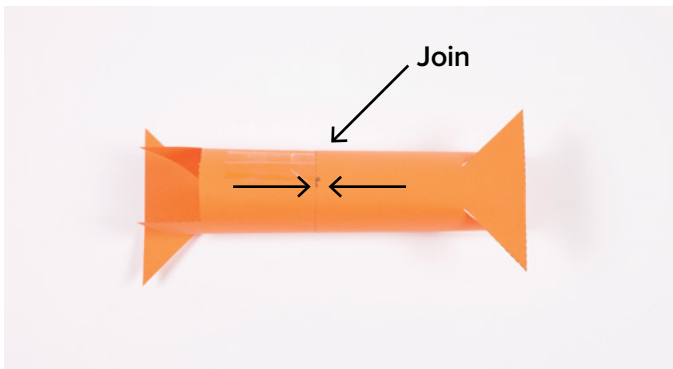
- 1** Print out the template on the next page. You can glue it to some card to make it stronger. Cut along all the lines of the template.



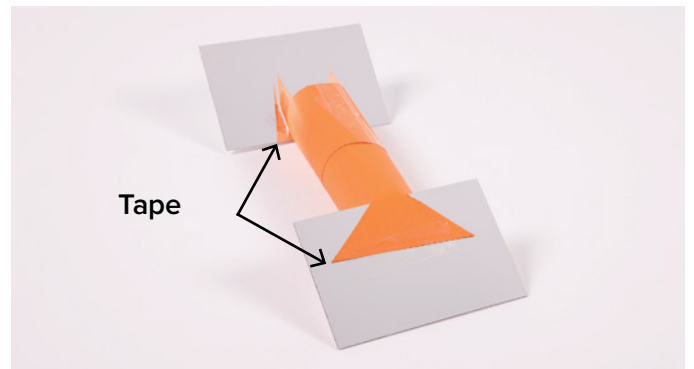
- 2** Take one half of the template, roll it into a tube and secure it with sticky tape.



- 3** Take the other half of the template, wrap it around the first half and secure it with tape. Make sure the joins are on opposite sides, as in the photo.



- 4** Slot the mirrors into each end and tape them down. The mirrors should face in opposite directions.



- 5** Now look through your periscope. What can you see?



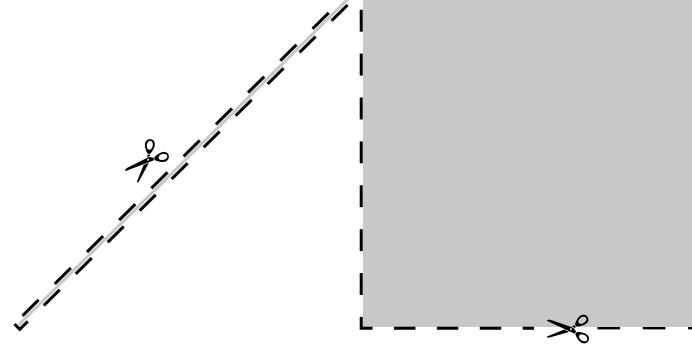
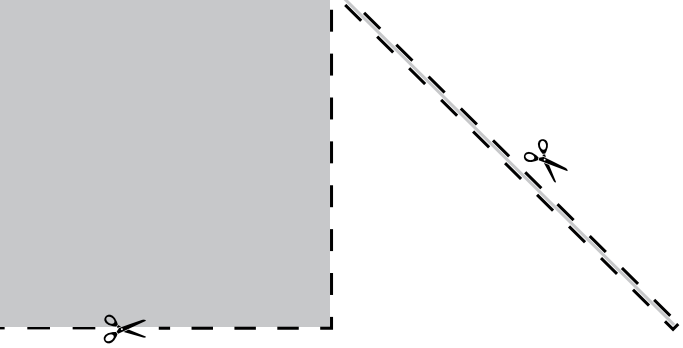
- 6** Twist the two parts of your periscope and look through it again. What can you see now?



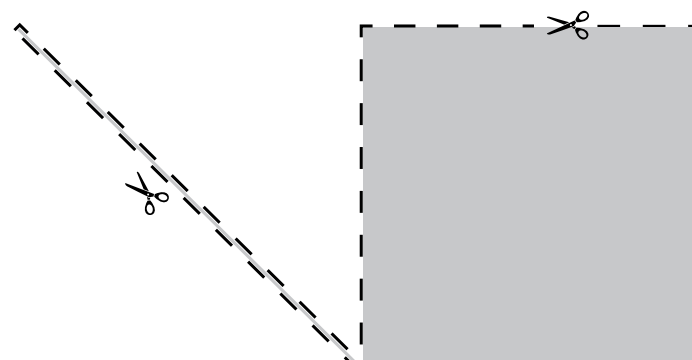
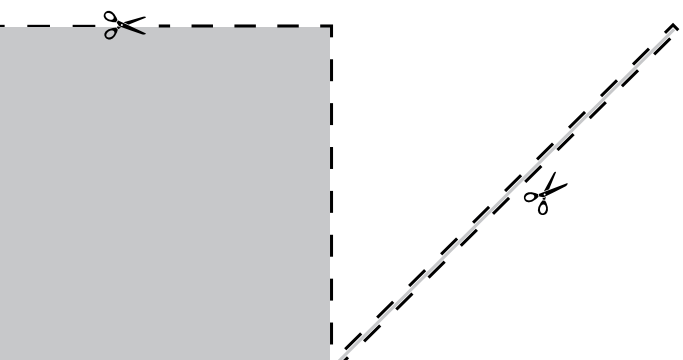
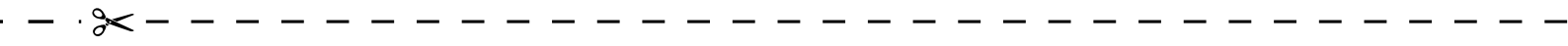
## SCIENCE IN YOUR WORLD

At the hairdresser's, you're able to see the back of your head thanks to a mirror in front of you and a smaller mirror held behind your head. Light reflects off one mirror then the next, and then into your eyes.





**SCIENCE  
MUSEUM**



## GREAT OBJECT HUNT

Follow your curiosity to explore the relationship between humans and the natural environment. From the energy we use to the way we get around to even the things we throw away, it all has some impact on the natural world. Use your observation and questioning skills to get thinking and talking about the world around us.

### YOU WILL NEED:

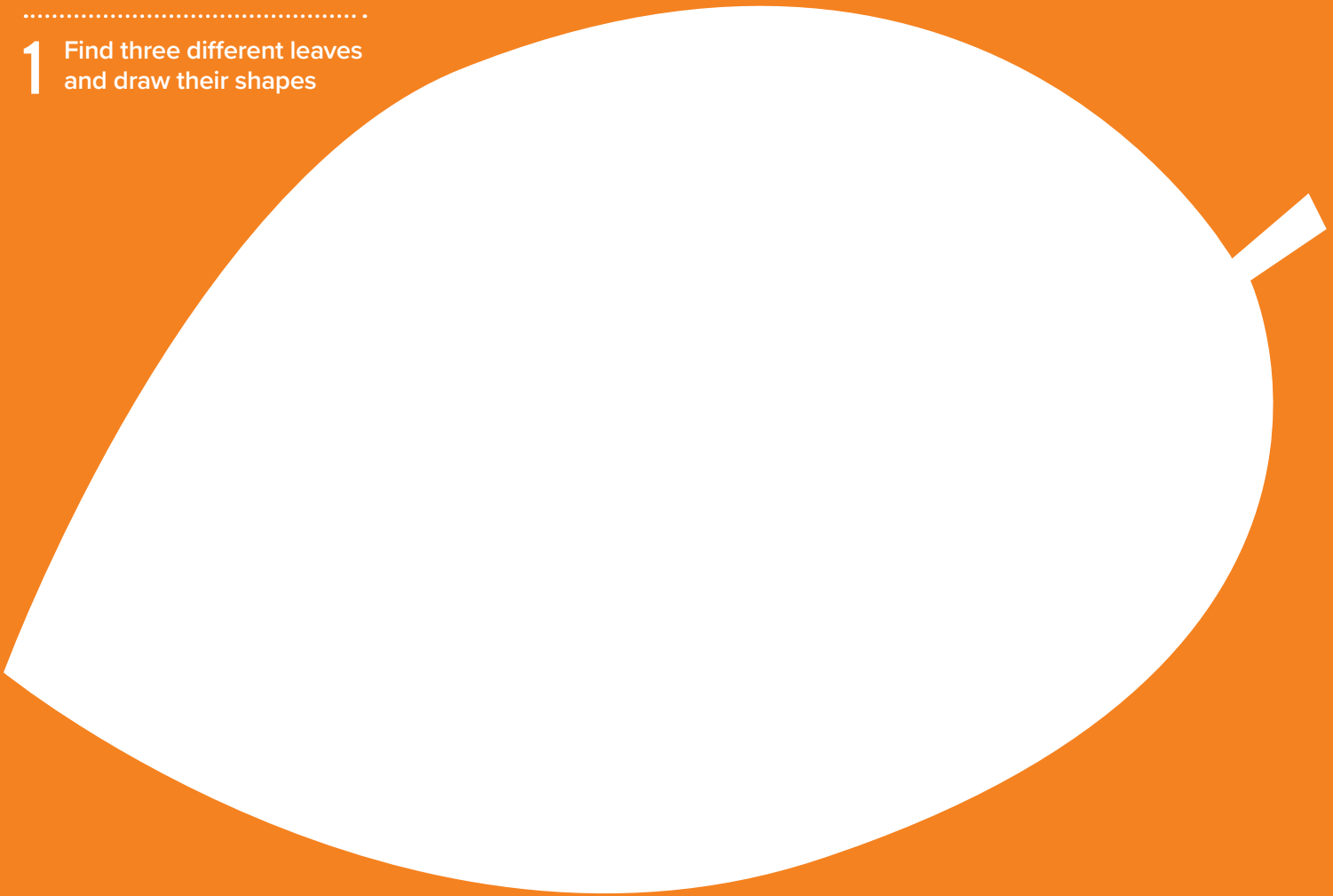
- A pencil
- The worksheet on the next page, printed out
- Your periscope, made with the 360° periscope activity in this pack



- Visit a park or green space as a family or group, with a responsible adult. Use your periscope to help you have a good look: up, down, all around. Talk about what you see. Tick off or draw the different things that you find.



1 Find three different leaves and draw their shapes



2 Find the following and tick them off the list:

- something that uses electricity
- something powered by renewable energy
- something designed to be recycled
- a place to recycle things
- something that you can re-use many times
- an environmentally friendly form of transport

3 Close your eyes and listen to all the sounds around you. Write down what you can hear...

