

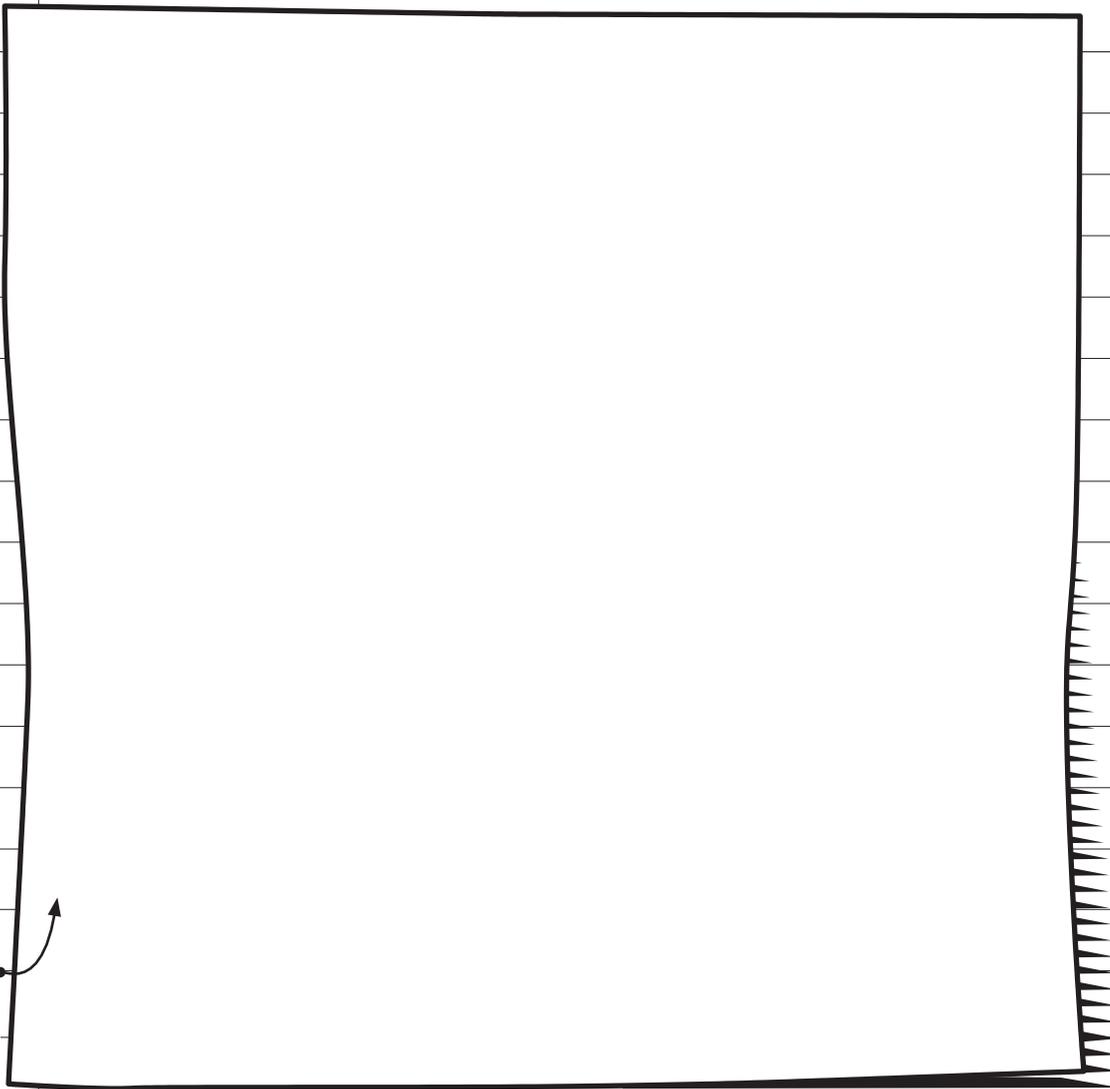
What is time?

1	How long does a minute last?
a	How many seconds are there in 1 minute?
	
b	How much time had passed when you thought 1 minute was over?
c	Why is it good that we have made agreements about time?
d	What instruments do you know for measuring time?
	You are going to make an hourglass.
2	Make an hourglass
	What do you need?
	• 2 bottles • tape
	• sand • pencil
	• card • stopwatch
	• scissors

What are you going to do?

- 1 Look at the materials and the drawing. How can you use these materials to make an hourglass? Draw it in the box below.

draw your
hourglass
HERE



- 2 Write down how you are going to use the materials and how you are going to fix them together.



3 Show your design to your teacher.

4 Did your teacher think it was a good design?

Now you are ready to make your hourglass!



5 Try out your hourglass. Turn it over. Does your hourglass work?

CIRCLE the correct answer

yes / no, because

6 Does your hourglass not work properly? Check the following points:

CIRCLE the correct answers

• Is the sand dry enough? **yes / no**

• Are the bottles dry enough? **yes / no**

• Is the hole in the card too big, or too small? **yes / no**

Change your hourglass if necessary.

7 Take the stopwatch. Turn over the hourglass and start the stopwatch.

How long does it take for all the sand to fall to the bottom?

 seconds

3 *use your hourglass*

a How long did your partner take to reach the finish line?



b Is it difficult to measure an exact time using an hourglass?

c Why / why not?

