

English

KS1

2016

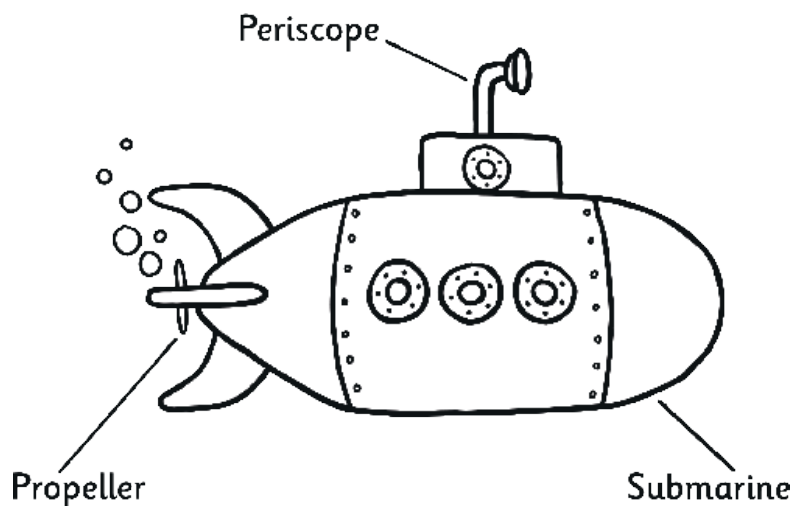
Year 1 Reading Assessment Submarines Answer Booklet

First Name						
Middle Name						
Last Name						
Date of Birth	Day		Month		Year	
School Name						
DfE Number						

Questions 1 to 12 are about 'Submarines'

Submarines

A submarine is a special ship that can travel on the **surface** of the water but it can also travel underwater. Submarines are powered by engines, **nuclear power** and electric batteries. A submarine also has a propeller on the back to push it along at different speeds.



1. Why is a submarine a special ship? Tick **one**.

It can travel in the air. ☐

It can travel over land. ☐

It can travel underwater. ☐

It can travel backwards. ☐

1 mark

total for
this page

2. **Find** and **copy** the word for the part of the submarine that pushes it along at different speeds.

1 mark

The First Submarines

The very first submarine was made by an inventor called Cornelis Drebbel. It was a rowing boat covered in leather and travelled to four and a half metres under the water.

Two hundred and fifty (250) years later, submarines were made with an electric motor for travelling underwater and **diesel** engines for travelling on the surface of the water.



3. Put ticks in the boxes to show whether each sentence is **true** or **false**. The first one has been done for you.

1 mark

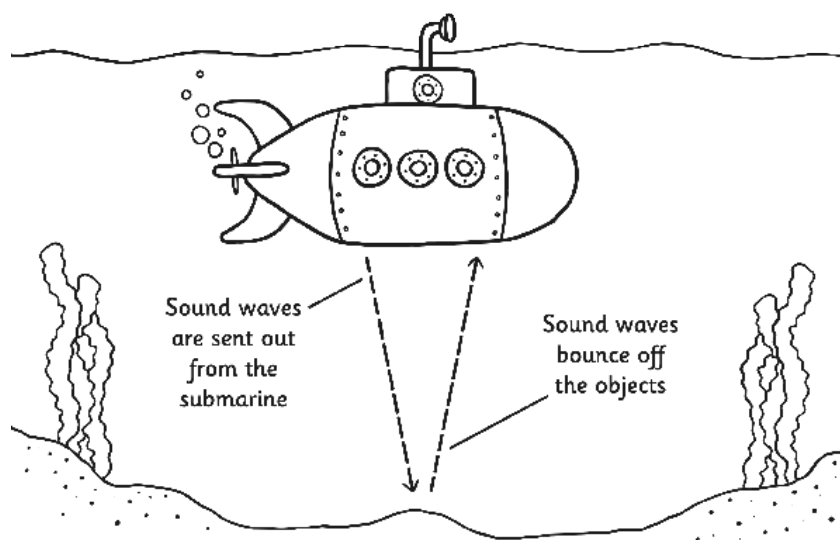
	True	False
Cornelis Drebbel made the first submarine.	✓	
The first submarine was made out of a rowing boat with a leather cover.		
Submarines were made with an electric motor in case the diesel ran out.		

total for
this page

Clever Computers

Submarines need some very special computers and equipment to make them work.

To find their way through the deep dark sea, submarines use sonar equipment. This sends out a sound wave which bounces off other objects in the sea, then back to the submarine. The sonar equipment measures how far away those objects are.



Because submarines travel under the water, other equipment is needed to give the sailors on board clean air and water. Without this, they would not be able to live.

4. Put numbers 1 to 4 in the boxes to show how sonar equipment works. The first one has been done for you.

The sound waves bounce back to the submarine.

The submarine measures how far away the object is.

The submarine sends out sound waves.

The sound waves meet another object under the sea.

2 marks

total for
this page

5. Find and copy **two** things sailors need to stay alive underwater.

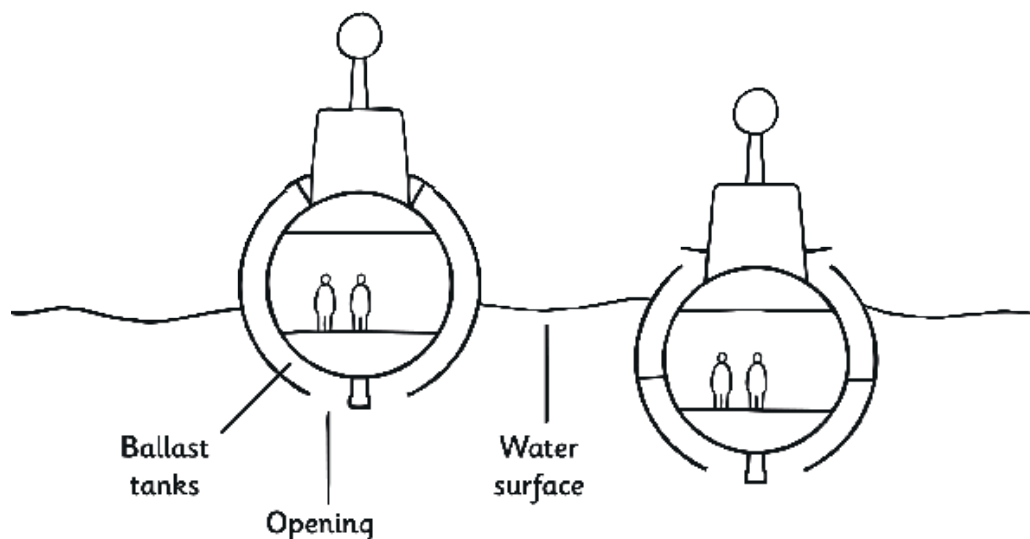
1 mark

1. _____

2. _____

How Do Submarines Stay Underwater?

Submarines have large tanks called **ballasts** which fill up with water when the submarine needs to go underwater or **submerge**. When the ballasts have more water inside them, the submarine becomes heavier and will sink.



6. What are ballasts?

1 mark

total for
this page

7. What does 'submerge' mean? Tick **one**.

float on the water ☐

sink under the water ☐

come out of the water ☐

turn in the water ☐

8. Draw a line to the correct ending to finish this sentence.

When the ballasts have more water inside them, the submarine will

float to the surface.

sink under the water.

spin around.

Stop reading the booklet here to answer question 9.

9. How do you think the submarine will rise back up to the surface?

Now continue reading the booklet.

total for
this page

To make the submarine rise back up, the water in the ballasts is let out to make it lighter and the submarine will travel up to the surface again.

Did you know?

As well as being used by soldiers to protect their country and fight in wars, submarines are also used by scientists to find out more about the sea, and by people trying to rescue, or **salvage**, shipwrecks.

Submarines have a periscope so that sailors on board can look at objects on the surface while the submarine is underwater. Periscopes can be used to spot dangers and targets.

10. Find and copy **two** groups of people who use submarines.

1. _____

2. _____

11. What does the word 'salvage' mean?

12. What do periscopes let sailors do?

End of questions about 'Submarines'

END OF TEST

1 mark

1 mark

1 mark

total for
this page