

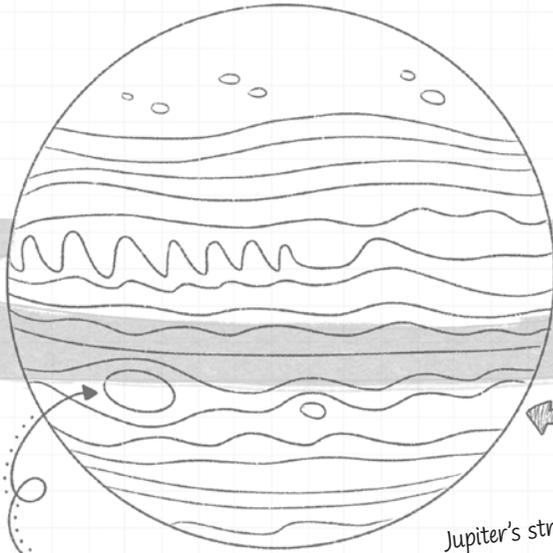
# Join The Secret Explorers

on a STEAM adventure!



# JUPITER

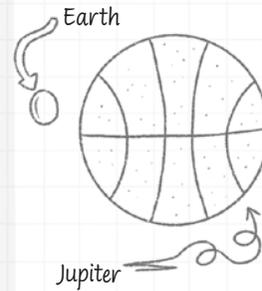
Jupiter is the largest planet in our Solar System. It is mostly made of the gas hydrogen and does not have a solid surface.



## GIANT RED SPOT

Jupiter's Great Red Spot is a gigantic spinning storm. It's twice the size of Earth and has raged for hundreds of years.

Jupiter's stripes are clouds of ammonia and water. The clouds are very cold and windy.



## FACT FILE

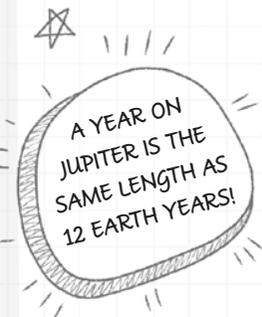
\* **Size:** Jupiter is the largest planet in the solar system. You could fit 1,321 Earths inside Jupiter! If Earth were the size of a grape, Jupiter would be the size of a basketball.

\* **Distance from Sun:** Jupiter orbits about 778 million km (484 million miles) from the Sun. Earth is 150 million km (94 million miles) away from the Sun.

\* **Moons:** Scientists now think Jupiter has 79 moons, but they're finding more all the time. The four biggest moons are Ganymede, Io, Callisto, and Europa.

\* **Length of a day:** A day on Jupiter – only lasts 10 hours – this is how long it takes to rotate on its axis.

Jupiter's rings are made of dust.



Discover everything about Jupiter with Roshni and Ollie, and answer the questions below:

1. How many moons does Jupiter have?
2. What are Jupiter rings made of?
3. How many times could Earth fit into Jupiter?

Suitable for 7-9 years

Content taken from *The Secret Explorers and the Comet Collision*  
Also available: Audiobook narrated by actor Alfred Enoch



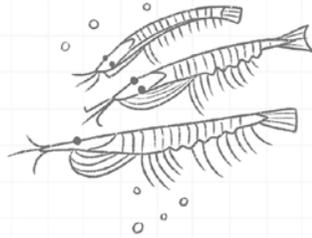
Answers: 1.) 79 2.) Dust 3.) 1321

## CONNOR'S MISSION NOTES

### THE HUMBACK WHALE

- \* **Latin name:** *Megaptera novaeangliae*
- \* **Animal type:** Mammals – they breathe air, have warm blood, and give birth to live young
- \* **Location:** Worldwide, but usually nearer coasts
- \* **Length:** Up to 17 m (56 ft)
- \* **Weight:** 34 tonnes – more than the weight of five African elephants!

In the southern oceans, humpbacks feed mainly on Antarctic krill.



Each whale has a unique pattern on the underside of its tail.

The pectoral flippers of the humpback are one third of its body length – longer than those of other whales.

Barnacles live on the whale's snout.

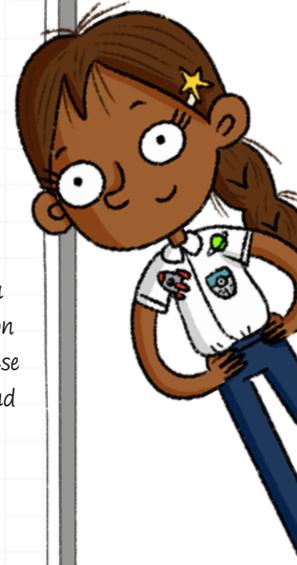
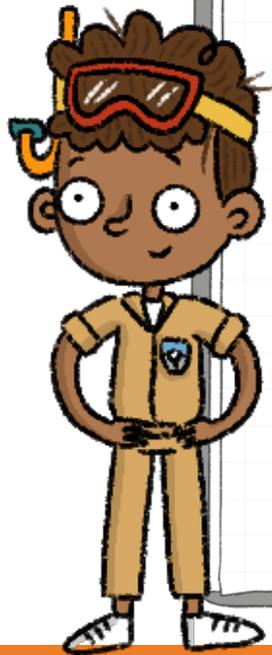
The humpback has a pair of huge nostrils on the top of its head. These are called blowholes, and close when the whales dive underwater.

### BEHAVIOUR

- \* Every year, most humpbacks migrate to warm waters to give birth to their young. They swim thousands of kilometres.
- \* Humpbacks live in groups called 'pods', which include up to 15 whales.
- \* An adult humpback can hold its breath underwater for 45 minutes – but usually stays under for 10–15 minutes before coming up for air.

### WHAT A TUNE!

Male humpbacks make sounds known as whale songs. These calls can be heard by whales many kilometres away and last for up to 30 minutes. Scientists think they might be a way to attract females, to protect their territory, or to communicate with each other.



Have you ever seen a whale? Read this page from Roshni's and Connor's mission notes.

1. What is a name of a group of whales?
2. What do humpback whales eat?
3. For how long can an adult humpback whale hold its breath under water?

Suitable for 7–9 years

Content taken from *The Secret Explorers and the Lost Whales*  
Also available: Audiobook narrated by actor Alfred Enoch

Answers: 1.) Pod 2.) Krill 3.) 45 minutes

