



STARS AND GALAXIES

Where do stars come from? How many stars are in a galaxy?
Can people travel to the Sun? Find out more about stars, galaxies and how we study them.

Do You Know? is a series of levelled non-fiction books featuring video content, project work and critical-thinking activities to motivate and engage young learners. Covering a range of STEM topics from nocturnal animals to climate change, *Do You Know?* takes an enquiry-based approach, developing children's language, communication and investigation skills.

Level 1 Pre-A1 • 400 headwords

Level 2 A1 • 600 headwords

Level 3 A1+ • 800 headwords

Level 4 A2 • 1100 headwords

Lexile measure 490L • Word count 749

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Earth and space

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DO YOU KNOW?

STARS AND GALAXIES

2

Ladybird

Level 2

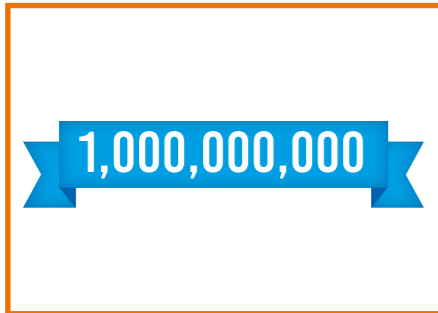
DO YOU KNOW?

STARS AND GALAXIES

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New words



billion



blow away



group



grow



core



explosion



kilometre



size
(noun)



far



gas



spacecraft



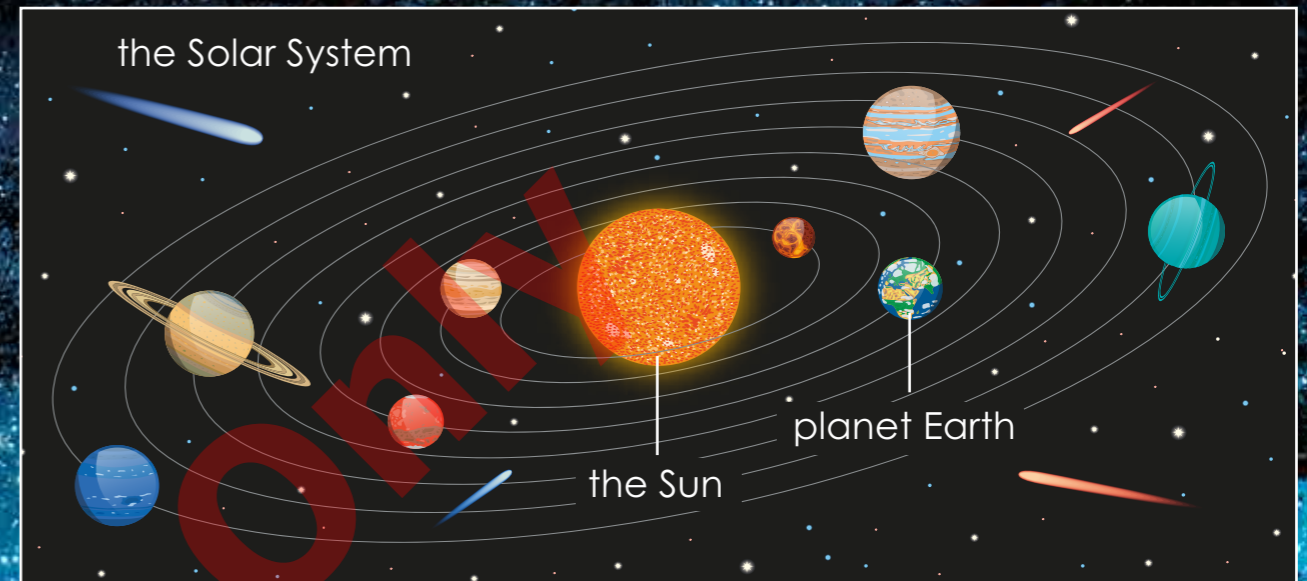
telescope

What is a star?

Look up at night.
What do you see?
You see lots of stars!
A star is very big and very hot.
It is a big ball of hot gases.



The Sun is a star!



Many stars have planets. The planets travel around the star. This is a solar system.

star

 **THINK!**

Is the Sun hot? How do you know?

Where do stars come from?

About 14 billion years in the past, there were no stars. Today, there are billions and billions of stars in space!

Look at the nebula. A nebula is lots of gases. The gases come together and get very hot. Then the gases make a star.

space

nebula

protostar

A protostar is a baby star.

 **WATCH!**

Watch the video (see page 32).

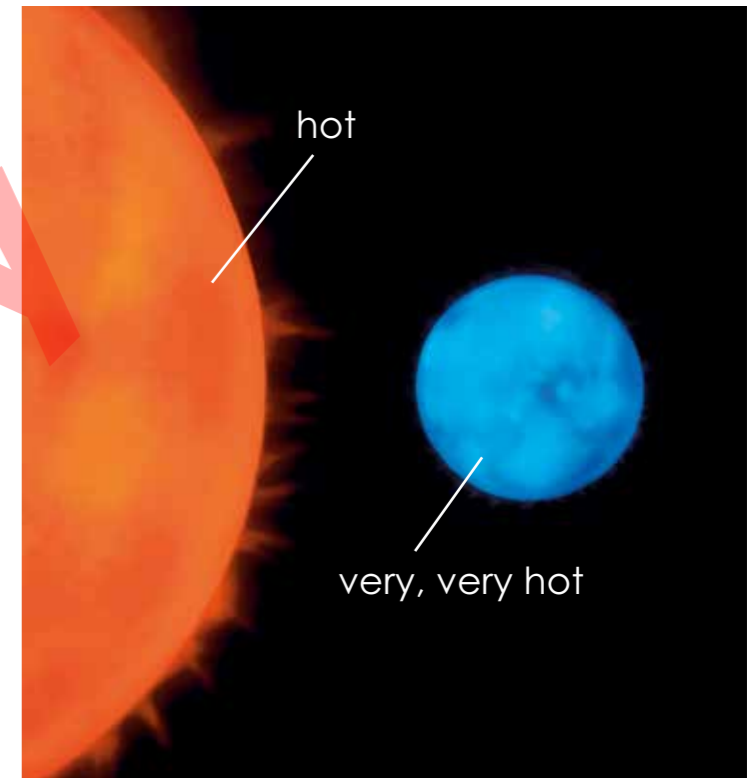
How old is Barnard's star? Is it older than the Sun?

Why are stars different colours?

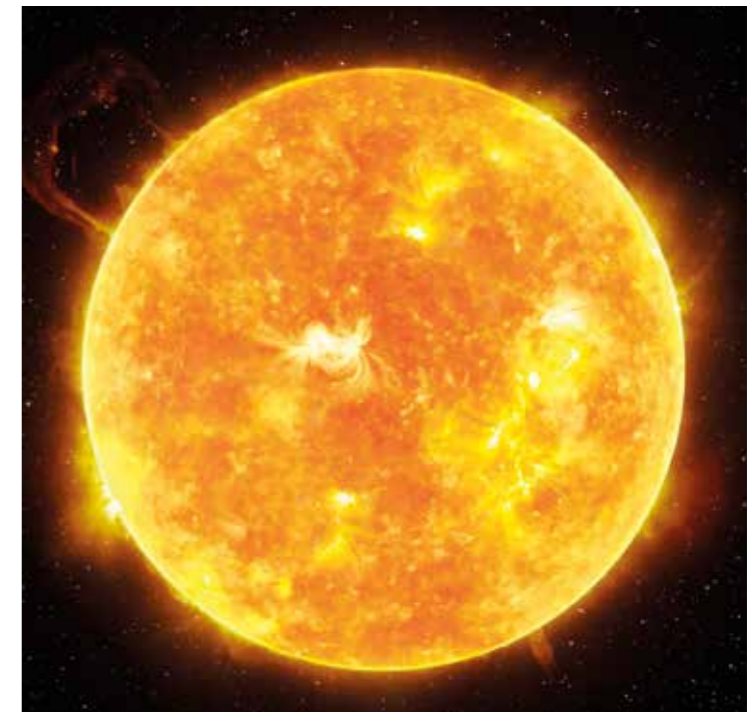
All stars are hot, but a star's colour tells us how hot it is.

Stars are blue, white, yellow, orange or red.

Red stars are hot, but blue stars are very, very hot.



The Sun is a yellow star.



 LOOK!

Look at the pages. What colours can stars be?