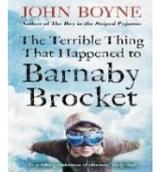


Tuesday 8<sup>th</sup> December 2020

GREEN

Learning Objective: I can distinguish between statements of facts and opinion.



Chapter 19 - Setting Free the Freaks

Statement	Fact	Opinion
Pg.200 - Captain Hoseason, here in Ireland women already have the vote.		
Pg.200 - A very interesting little fellow.		
Pg.201 - The man's a monster.		
Pg.202 - ...like the day Captain W.E.Johns kicked a football past Henry into the goal in their back garden.		
Pg.203 Captain Hoseason has been invited to dine with the President.		
Pg.204 - That's just completely wrong.		
Pg.204 - You need to be able to go home to your families.		
Pg.207 - In the distance, parked along the road, was a small fleet of cars and motorbikes.		
Pg.208 - These bikes go pretty fast, you know.		
Pg.208 - I'm too old for this.		

Write the subheading, Facts, into your book and then list 3 things you know to be factual about this chapter.

Now write the subheading, Opinions, and write 3 opinions you have about this chapter.

## SPACE NEWS

### MISSION TO THE MOON

CHINA successfully launched a rocket to the moon this week, to gather valuable lunar rocks from its surface. The mission is the first attempt by any country to bring moon rocks back to Earth in nearly 45 years. The Long March 5 rocket's unmanned mission will see the Chang'e-5 lunar probe, which is named after the Chinese goddess of the moon, attempt to collect around 1.8kg of samples from a previously unvisited area.



### SCHOOL SCIENCE

PUPILS at Stirling High School have discovered a new colony of emperor penguins in the Antarctic. They used freely available satellite imagery to find the colony, revealing 20% more emperor penguin colonies than previously known. Dr Andrew McDonald from the school said it showed that "it is possible to perform meaningful real science in schools".



### SEA SPY

A NEW satellite that will allow British scientists to collect vital data about sea levels has been launched into space. Sentinel-6, which is the size of a small car, will orbit the planet collecting data that could help combat climate change. Sea levels have been rising faster over the last few years, and are expected to increase further.

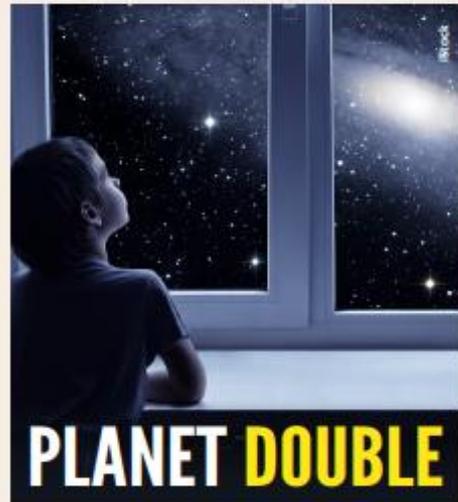


**A GIANT claw that will capture space junk and make it safe will depend on vital technology designed by British scientists.**

While the Americans and Russians are firing off rockets and satellites into space, the British contribution to the space race is to help clear up what they've left behind. It may not be very glamorous but it is vital. Dr Graham Turnock of the UK Space Agency said: "For 14 billion years – between the Big Bang and the autumn of 1957 – space was pristine [untouched]. But since that autumn we have placed nearly 10,000 satellites into the sky, the vast majority of which are now defunct or destroyed." Swiss company ClearSpace has called on British expertise in navigation and control systems for the project.

The ClearSpace-1 satellite will be launched in 2025 and is the first space mission aimed at removing some of the debris from other space projects. Most of the estimated 160 million objects up there are no longer useful, out of date or left over from boosting rockets beyond the Earth's atmosphere. There is a danger that if the junk builds up too much, it will put new missions in danger or damage important satellites.

The plan is for the ClearSpace-1 satellite to capture the junk and then steer it back to Earth for a controlled re-entry, allowing it to burn up safely, without endangering life.



### PLANET DOUBLE

**TWO planets are lining up for a rare sighting at Christmas time.**

On 21 December, Saturn and Jupiter will appear closer together in the sky than they have for 800 years and will look like a double planet. But you will have to be quick to see it, as this extremely rare occurrence will only last for a few minutes.

Weather permitting, the two planets will appear low in the western sky around one hour after sunset, close to the horizon, and should be bright enough to spot.

If you miss it, it'll be 60 years until they are as close again!

Wednesday 9<sup>th</sup> December 2020

GREEN

**Overall Objective:** To be able to retrieve, record and present information from a non-fiction text.

**Learning Outcome:** I can retrieve, record and present information from a non-fiction text.

### First News

1) Tick the correct boxes.

	Sea spy	China mission to the moon	School science	Planet double	Space claw
Which reports are about named spacecraft?					
Which involve satellites?					
Which are about future events?					

2) What is being collected by these three spacecraft?

- a) ClearSpace-1
- b) Sentinel-6
- c) Chang'e-5

3) Look at the article 'Planet double'. Summarise what you would need to do to see this spectacle for someone who hasn't read the news.

4) Look at the article 'School science'. What was discovered by children at Stirling High School?

5) The children used 'freely available satellite imagery'. What does the word *freely available* tell you about the images?

6) Look at the article 'Space claw'. Who does the journalist blame for creating all this space junk?

1) What is going to happen to the space junk that is collected? Tick one.

- a) Is it going to be collected and brought back down to Earth for recycling.
- b) It is going to be directed towards Earth and will burn up as it re-enters the atmosphere.
- c) It is going to be steered out of orbit and shot into space where it will burn up as it travels away.

7) Fill in the gaps with the correct word.

Choose from: navigation British 2025 Earth hazard control  
160 million Swiss

ClearSpace-1 is being built by a \_\_\_\_\_ company and will launch in \_\_\_\_\_. Its mission is to clear up some of the \_\_\_\_\_ objects left in space orbiting \_\_\_\_\_ that pose a \_\_\_\_\_ to future missions. \_\_\_\_\_ scientists will be building the \_\_\_\_\_ and \_\_\_\_\_ systems.