

7. Why has the author used the phrase “which can make your head hurt if you think about it for too long”? (1 mark) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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8. What is the difference between a planet and a moon? (2 mark) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Explain the process of how scientists believe the universe began. (1 mark) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Find and copy the name of the theory that scientists believe created the universe? (1 mark) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. How many stars are there in space? (1 mark) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. What is “made possible on Earth” due to the Sun? (1 mark) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. How much bigger is the Sun than the Earth? (1 mark) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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6. What are the three main types of planets? (2 marks)

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**Monday 11th January 2021**

**LO: to retrieve facts and information from within the text**

Context – Earth and Space

Space is all around us and scientists think that it stretches on forever – which can make your head hurt if you think about it for too long. As you’d expect, something that big has a lot of stuff in it. Let’s find out where it all came from and what’s there.

Most scientists believe that the universe began with a bang. Between 10 billion and 15 billion years ago the universe exploded out from a tiny point, hurling out gases that would go on to form the stars and galaxies. This is called the Big Bang theory and scientists can still pick up an ‘echo’ of radiation from the universe’s violent beginning. Our Sun is just one of the billions of different stars that are out in space. The Sun gives out heat and light and makes life possible on Earth. The Sun is roughly spherical in shape and is much, much bigger than the Earth - 1,300,000 times bigger! Stars are really just big balls of gas. They come in all sizes and temperatures from cool dwarf stars, to medium ones like our Sun, to huge, hot giants many many times the size of our Sun. The only reason our Sun looks different to all the other stars is that we’re so much closer to it.

A planet is an object over a certain size that orbits, or travels round, a star. There are three main types of planet: planets which are made mainly from rock, like our own; planets that are made mainly from ice, which are generally the smallest planets; and the biggest planets that are made from gas. A moon, on the other hand, is an object over a certain size that orbits around a planet rather than a star – just like our Moon (though the name rather gives that away!).