

Grade 7 Natural Science Worksheet

Assessment Task: Solar system: definitions

Solar system facts

Part One: Vocabulary test

Vocabulary test: Write full definitions for each of these terms.

- 1. Asteroid
- 2. Astronomy
- 3. Atmosphere
- 4. Comet
- 5. Constellation
- 6. Galaxy
- 7. Meteoroid
- 8. Meteor
- 9. Meteorite
- 10. Moon
- 11. Orbit
- 12. Satellite
- 13. Star
- 14. Supernova

[14 marks]

Part Two: Research about our solar system

What is our solar system and how did our solar system begin?

Do some research on this question and write your answer as a detailed explanatory paragraph.

[10 marks]



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Suggested Solutions

| Question | Possible | Solution |
|----------|-----------|--|
| number | marks | |
| 1 | 14 | Asteroid – large lump of rock and metal that orbits the Sun. |
| | | Astronomy – study of bodies in space. |
| | | Atmosphere – the protective layer of gases around a planet. |
| | | Comet – lump of frozen gas and dirt orbiting the Sun. |
| | | Constellation – pattern of stars in the sky, e.g. Scorpio, Orion. |
| | | Galaxy – large collection of stars, held together by gravitational attraction. |
| | | Meteoroid – small piece of space debris. |
| | | Meteor – a meteoroid that starts to burn up as it enters the earth's |
| | | atmosphere. |
| | | Meteorite – remains of a meteor that has landed on earth. |
| | | Moon – natural satellite orbiting a planet. |
| | | Orbit – to circle around an object. |
| | | Satellite – an object orbiting a star or planet. |
| | | Star – ball of tremendously hot gas which produces heat and light from |
| | | nuclear reactions in its core. |
| | | Supernova – colossal explosion when a star dies. |
| 2 | 10 – Any | It is estimated that about 10 000 million years \checkmark after the Big Bang, the |
| | ten facts | Sun and planets of our solar system formed near the edge of a galaxy |
| | | that is now known as the Milky Way. ✓ The Sun is a star. ✓ Everything |
| | | that orbits the Sun is known as our Solar System. ✓ This includes planets |
| | | and their moons, chunks of rock called asteroids, icy debris and huge amounts of dust. ✓ |
| | | Scientists believe that our Solar System began when the gas cloud left |
| | | over from a giant supernova explosion ✓ started to collapse in on itself |
| | | and spin. ✓ A huge cloud of hot dust and gas was left circling the new |
| | | star, which was our Sun. ✓ The Sun has a huge pulling force called |
| | | gravity, so the dust kept circling the Sun, attracted by this force of |
| | | gravity. ✓ The planets began to form when tiny pieces of space debris |
| | | began to clump together, pulled together by each other's gravity. |
| | | More space debris would join the clumps making them bigger until they |
| | | could be called planets. \checkmark It is estimated that the Earth came into being |
| | | about 4 600 million years ago. ✓ |