

OBHS Core Questions:

Subject: Science

Year and Term: Year 11 Autumn Term

Topic: P8 Space – Triple Science only



Learn these questions to build a strong foundation of knowledge for this half-term. Ask family or friends to test you regularly, or practise on your own using the 'Look, Say, Cover, Write' method.

Question	Answer
1. What is the star at the centre of our solar system?	Sun
2. What type of celestial bodies orbit the planets?	Moons
3. What is our galaxy called?	Milky Way
4. What caused the Sun to form from a nebula?	Gravity
5. What process begins when gas and dust are pulled together in a star?	Fusion
6. What two forces are balanced in a stable star?	Gravity and fusion
7. What determines the life cycle of a star?	Size
8. What is the first stage in a star's life cycle?	Nebula (a cloud of gas and dust)
9. What is an explosion of a red giant called?	Supernova
10. What elements are formed when supernova happens?	Elements heavier than iron on the periodic table
11. What does a supernova distribute into the universe?	Elements
12. What type of orbit do planets follow around stars?	Circular
13. What force keeps planets and satellites in orbit?	Gravity
14. True or false, artificial satellites kept in orbit by the same force as natural ones.	True

15. (HT) What changes in a circular orbit?	Velocity
16. (HT) What must change if the orbital speed changes?	Radius
17. What is the increase in wavelength of light from distant galaxies called?	Red-shift
18. What does red-shift suggest about the universe?	Expansion of the universe
19. What theory does red-shift support?	Big Bang
20. What have supernovas since 1998 suggested about galaxy movement?	That other galaxies are moving away from ours even faster than they previously were.
21. What do scientists use to develop theories like the Big Bang?	Observations
22. What are two mysterious components of the universe?	Dark matter and dark energy