



Give the marks for the points in the marking scheme; an answer in other words that says the same is right.

1 Key words

1. satellite
2. orbit
3. solar system
4. rotation
5. revolution
6. phases

K • 3

Each carries 0.5 mark.

2 Label the diagram

- | | |
|----------|------------|
| 1. Sun | 4. equator |
| 2. N | 5. axis |
| 3. 66.5° | 6. S |

K • 3

Each carries 0.5 mark.

3 Multiple choice**i. d. the Sun**

K • 1

The Sun is a star. Venus and Jupiter are planets. The Moon is a satellite.

ii. b. the Earth spinning once on its axis

K • 1

The Earth spins once on its axis in **24 hours**. That is one day. The Moon takes about a month, and the Earth takes a year to go round its orbit.

iii. b. The Earth spins and goes round the Sun with its axis tilted at 66.5° to the plane of its orbit.

U • 1

The tilted axis makes each half of the Earth lean towards the Sun for part of the year, and away for the other part.

iv. d. The Moon goes round the Earth.

U • 1

As the Moon goes round the Earth, we see different amounts of its sunlit half. That makes its phases.

v. a. full and round, all night long

A • 1

This is the **full moon**. The whole lit half faces us. The Moon rises at sunset and sets at sunrise, so it is **round and bright all night**.

4 Correct or wrong?**MARKING SCHEME**

U • 4

- ✓ i. Wrong, X (planets go round the Sun; the Sun is a star itself).
- ✓ ii. Wrong, X (it spins once in 24 hours; 365 days is one trip round the Sun).
- ✓ iii. Correct, ✓ (places to the east see the Sun first, so their clocks are ahead).
- ✓ iv. Correct, ✓ (the growing Moon is already up by sunset).



5 Match the Moon

1. new moon (Aunsi) → b. the Moon is between the Sun and the Earth
2. full moon (Purnima) → c. the Earth is between the Sun and the Moon
3. bright half (Shukla Paksha) → e. the Moon grows bigger each day
4. dark half (Krishna Paksha) → a. the Moon grows smaller each day

Each carries 0.5 mark.

U • 2

6 Very short answers

MARKING SCHEME

- ✓ Eight.

K • 1

7 Short answers

a. MARKING SCHEME

- ✓ Stars have their own light; planets have none (they shine by sunlight).
- ✓ Any second, e.g. planets go round the Sun and stars don't; stars are huge balls of very hot gas; stars twinkle and planets shine steadily.

K • 2

b. MARKING SCHEME

- ✓ Any one, e.g. day and night.
- ✓ Any second, e.g. the time is different in different places; the Sun, the Moon and the stars seem to rise in the east and set in the west.

U • 2

8 Think

MARKING SCHEME

- ✓ There would be no seasons (every place would get the same sunlight all year).
- ✓ Day and night would be equal (12 hours each) everywhere, every day.

HA • 2

9 Activity: Watch the Moon rise

(not marked)

WHAT STUDENTS SHOULD FIND

Each day the Moon rises later, by about 50 minutes. It is still almost round the day after the full moon, then a thin slice is missing from one edge, a little more each day, and it is a little less bright.

Marks by level	Knowledge	Understanding	Application	Higher ability	Total
Marks	11	10	1	2	24

