

Earth, Sun & Moon

Name:

Date:

INQUIRY**When it's noon in Nanjing, it's 5am in Berlin and 1pm in Seoul. Why?**

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Rotation	Earth spins on its axis once every 24 hours → day/night.
Revolution	Earth orbits the Sun once every 365.25 days → year.
Time zones	24 zones, 1 hour apart, caused by Earth's rotation.

Part A — Day and Night

1. Explain why we have day and night. Use the words: rotation, axis, 24 hours. [3 marks]

2. When it's noon in Nanjing (UTC+8), what time is it in: (a) Seoul (UTC+9) (b) Berlin (UTC+1) (c) Sydney (UTC+10)? [3 marks]

Part B — Moon

3. Name and draw the 4 main Moon phases: new moon, first quarter, full moon, last quarter. [4 marks]