



SP7 Astronomy

Personal learning checklist | 1 of 1

GCSE Edexcel Separate Sciences | Physics Paper 1

Name _____ Class _____ Date _____

Tick one box for each statement. Red: need help. Amber: partly confident.
Green: can do independently.

I can	Red	Amber	Green
Solar System			
Identify Solar System bodies and recall the eight planets in order.	☐	☐	☐
Explain changing weight and gravitational field strength with unchanged mass.	☐	☐	☐
Explain how observations changed geocentric and heliocentric models.	☐	☐	☐
Orbits			
Compare planet, moon, comet and artificial-satellite orbits.	☐	☐	☐
Explain inward gravity, tangential velocity and acceleration in circular orbits.	☐	☐	☐
Relate stable orbital speed to radius and calculate speed from period.	☐	☐	☐
Star life cycles			
Describe Sun-like star evolution and explain main-sequence stability.	☐	☐	☐
Describe massive-star evolution and compare mass-dependent final outcomes.	☐	☐	☐
Red-shift and cosmology			
Explain Doppler changes and interpret red-shift and distance trends.	☐	☐	☐
Explain how galaxy red-shift supports expansion and both historical Universe models.	☐	☐	☐
Compare Big Bang and Steady State and evaluate CMB and red-shift evidence.	☐	☐	☐
Observation			
Compare historical, ground-based and space-based observing methods.	☐	☐	☐

My next revision priority _____