

Foundation Separate version — Higher Tier (★) questions removed.

**Q1. Explain how guard cells control the opening and closing of stomata.**

**[3 marks]**

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**Total: 3 marks**

### Q1 (3 marks)

*Explain how guard cells control the opening and closing of stomata.*

- In light/adequate water: guard cells become turgid → bow outward → stoma opens [1]
- In darkness/drought: guard cells lose water → flaccid → stoma closes [1]
- This balances gas exchange (photosynthesis) against water conservation [1]