

KEY FACTS

- Animal: nucleus, cell membrane, cytoplasm, mitochondria, ribosomes
 - Plant ALSO: cell wall, chloroplasts, permanent vacuole
 - Bacterial: no nucleus, circular DNA, plasmids, cell wall, ribosomes
 - Fungal: cell wall (chitin), nucleus, no chloroplasts
- ★ SA:V ratio: smaller = higher ratio = diffusion faster

KEY TERMS

Eukaryotic	Has nucleus
Prokaryotic	No nucleus
SA:V ratio	Surface area to volume — affects diffusion efficiency

■ EXAM TIP: Fungal cells have chitin cell walls (not cellulose). Edexcel tests this difference.