

★ **HIGHER TIER ONLY** content is highlighted in blue. Foundation students — focus on the un-highlighted sections.

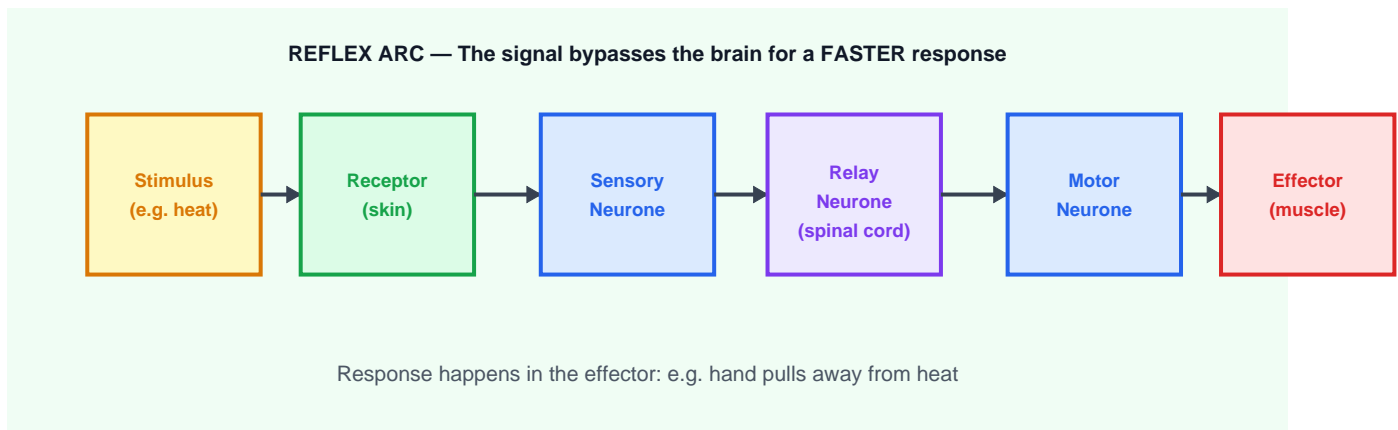


Fig: The reflex arc — a rapid, automatic response

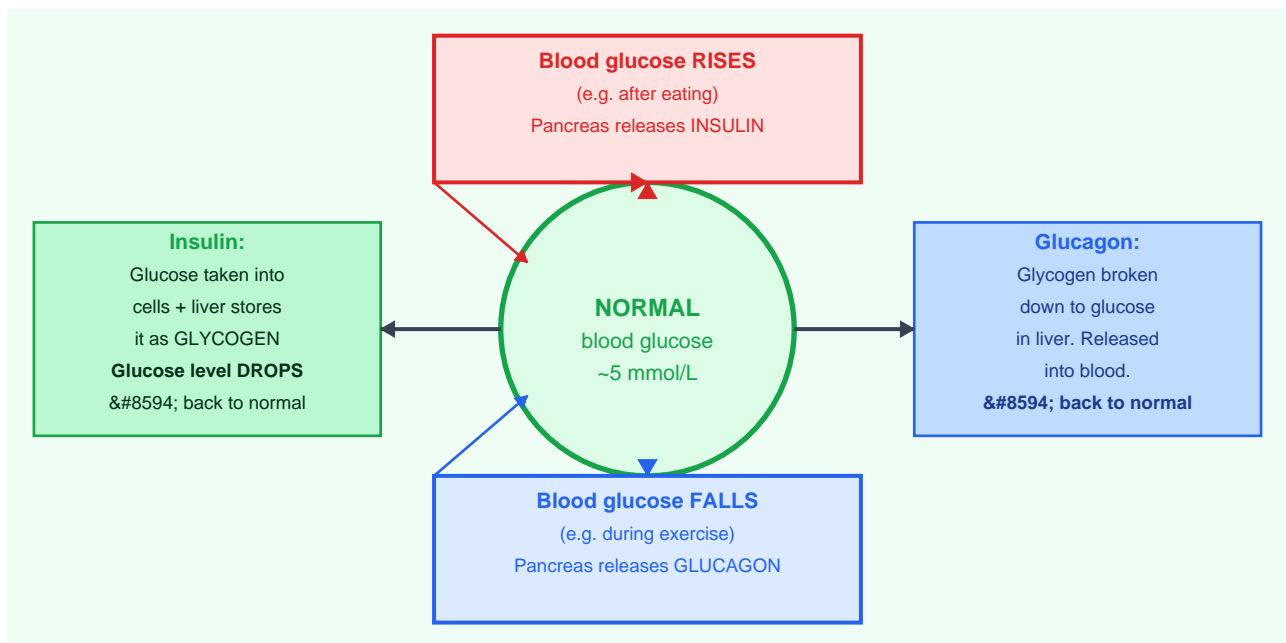


Fig: Negative feedback control of blood glucose — the pancreas acts as the control centre

■ **Exam Tip:** The nervous system is **FAST** and specific. The endocrine (hormonal) system is **SLOWER** but has longer-lasting effects.

Hormone	Chemical messenger carried in blood from gland to target organ
Insulin	Lowers blood glucose — released when glucose is HIGH
Glucagon	Raises blood glucose — released when glucose is LOW