

B12 Homeostasis in Action **Trip only** – Science Faculty

Rationale and Context of Unit:	Core curriculum content:	Tier 2 & Tier 3 vocabulary explicitly taught:
<ul style="list-style-type: none"> • <i>B11 is the basis of this, understanding how hormones generally work and the detailed needed in specific examples.</i> • This unit is separate science only and contains the examples of homeostasis that students have less existing context of so find more difficult. • 7B1 cells understands the organisation of the body. 	<ul style="list-style-type: none"> • How we control temperature • How we heat up and cool down our bodies. • Removal of waste products such as CO₂, urea and water. • The function of the kidneys • Higher only ADH and water balance • Dialysis • Kidney donation and its issues 	<ul style="list-style-type: none"> • <i>Thermoregulatory centre</i> • <i>Dialysis</i> • <i>Vasodilation</i> • <i>Vasoconstriction</i> • <i>Selective Reabsorption</i> • <i>ADH</i> • <i>Rejection</i>
Challenge and Support:	World wide learning/ links to 21 st century:	Cultural capital/ Industry/ Enrichment:
<ul style="list-style-type: none"> • The role of ADH is yet another abbreviated hormone and is often muddles up with others from B11. • Comparing dialysis vs donation students often struggle to see the negatives of donation other than rejection. 	<ul style="list-style-type: none"> • Medical advancement and the change in donor legislation. Organ transplant chains. 	<ul style="list-style-type: none"> • <i>Medicine and organ donation.</i> • <i>Career focus nursing</i> •
Historical, Social, Moral, Spiritual, Cultural context:	Cross curricular links/ literacy/numeracy:	Common misconceptions:
<ul style="list-style-type: none"> • The history of organ donation and dialysis development. • Should you become a donor or opt out? History why we changed from opt in to opt out. 	<ul style="list-style-type: none"> • Literacy comparing texts and information to form a written opinion • PE theory water control 	<ul style="list-style-type: none"> • <i>Muddling the hormones with all the others learnt.</i> •
Assessment timeline:		
<ul style="list-style-type: none"> • <i>regular EPPQs</i> • <i>end of unit test (With B9)</i> 		

- *EPPQ homework task*
- *in lesson questioning and other progress checks*

Home learning

- *EPPQ homework booklet*

Feedback

- *Students self/peer mark homework booklets and set revision goals based on understanding.*
- *Feedback four based on the end of the unit test. (Units B8&9)*

Length of unit (duration indicated in lessons)

This unit is only taught to separate scientists it is 6 lessons long (5 content and 1 assessment)

Unit: B12