

Trauma 999 Curriculum Links for OCR Gateway Science Biology A (J247)

B1.2 What happens in cells (and what do cells need?)

B2.2 The challenges of size

B3.1 Coordination and control – the nervous system

B6.3 Monitoring and maintaining health

B1.2 What happens in cells (and what do cells need?)

B1.2g explain the mechanism of enzyme action

the role of enzymes in metabolism, the role of the active site, enzyme specificity (lock and key hypothesis) and factors affecting the rate of enzyme controlled reactions (pH, temperature, substrate and enzyme concentration)

B1.2e explain simply how the structure of DNA affects the proteins made in protein synthesis (To include triplet code and its use to determine amino acid order in a protein)

B2.2 The challenges of size

B2.2e explain how red blood cells and plasma are adapted to their transport functions in the blood

B3.1 Coordination and control – the nervous system

B3.1h explain some of the limitations in treating damage and disease in the brain and other parts of the nervous system

limited ability to repair nervous tissue, irreversible damage to the surrounding tissues, difficulties with accessing parts of the nervous system

B6.3 Monitoring and maintaining health

B6.3a describe the relationship between health and disease

B6.3j explain how white blood cells and platelets are adapted to their defence functions in the blood