Edexcel iGCSE Biology Checklist

Section B5: Blood and Circulation

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| ***I can*** | ☺ | 😐 | ☹ |
| 2.49 understand why simple, unicellular organisms can rely on diffusion for movement of substances in and out of the cell |  |  |  |
| 2.50 understand the need for a transport system in multicellular organisms |  |  |  |
| 2.57 describe the composition of the blood: red blood cells, white blood cells, platelets and plasma |  |  |  |
| 2.58 understand the role of plasma in the transport of carbon dioxide, digested food, urea, hormones and heat energy |  |  |  |
| 2.59 explain how adaptations of red blood cells, including shape, structure and the presence of haemoglobin, make them suitable for the transport of oxygen |  |  |  |
| 2.60 describe how the immune system responds to disease using white blood cells, illustrated by phagocytes ingesting pathogens and lymphocytes releasing antibodies specific to the pathogen |  |  |  |
| 2.61 understand that vaccination results in the manufacture of memory cells, which enable future antibody production to the pathogen to occur sooner, faster and in greater quantity |  |  |  |
| 2.62 understand that platelets are involved in blood clotting, which prevents blood loss and the entry of micro-organisms |  |  |  |
| 2.63 describe the structure of the heart and how it functions |  |  |  |
| 2.64 explain how the heart rate changes during exercise and under the influence of adrenaline |  |  |  |
| 2.65 describe the structure of arteries, veins and capillaries and understand their roles |  |  |  |
| 2.66 understand the general structure of the circulation system to include the blood vessels to and from the heart, the lungs, the liver and the kidneys. |  |  |  |