The Ellesmere Port



Year 12 A Level Biology **Learning Programme 2** Literacy: The LORIC skill focus for his LP is: ORGANISATION Capital letters must be used at the start The Moral Virtues focus for this LP are: COMPASSION and HONESTY of sentences and for the first letter of Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others. proper nouns Honesty - the quality of being truthful. Full stops must be used at the end of a What will I be learning about in this Learning Programme? sentence You are learning about how DNA replicates and how exchange systems are specialised. Question marks must be used at the end of a question Apostrophes should only be used for Where have I seen this learning before? possession or omission You have learnt about DNA and gas exchange systems in GCSE Biology. Days of the week and months must be spelled correctly Key words must be spelled correctly What could I use it for? You will use this again if you pursue a career in human physiology, zoology. 2.1, I will knov how to carry out paper and thin-layer chromatography to how to identify proteins; Exam Questions on Nucleotides how to describe the structure of a nucleotide; Nucleotide how to describe the process of semi-conservative DNA replication. n LP2.2. I will know: 04/11/24 - (WK 1) Key Vocabulary Exam Questions on The nature of the how to carry out a practical investigation into the purification of DNA by precipitation. genetic code Transcription P2 RLW, I will: 11/11/24 - (WK 2) review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge. 18/11/24 - (WK 1) **Key Vocabulary** how to describe transcription and translation of genes resulting in the synthesis of polypeptides; Task on role of enzymes how to describe the role of enzymes in catalysing reactions that affect metabolism at a cellular and whole organism level; how to explain the effects of pH, temperature, enzyme concentration and substrate concentration on enzyme activity. Enzyme Extended Task 25/11/24 - (WK 2) Key Vocabulary n LP2.4. I will my strengths and areas for development for my learning so far. Revision task 02/12/24 - (WK 1) Key Vocabulary Exam Questions on specialised exchange how to explain the effects of inhibitors on the rate of enzyme controlled reactions; how to describe the need for coenzymes, cofactors, and prosthetic groups in some enzyme controlled reactions; systems Prosthetic group now to explain the need for specialised exchange surfaces. 09/12/24 - (WK 2) n LP2.6. I will know Key Vocabulary Homework how to describe the structures and functions of the components of mammalian gaseous exchange system. Short answer questions on exchange surfaces. Gaseous exchange system Extended Task 16/12/24 - (WK 1) Key Vocabulary n LP2.7. I will know Practice task on Vital capacity and tidal how to explain the relationship between vital capacity, tidal volume, breathing rate and oxygen uptake; now to explain the relationship between vital capacity, tidal volume, breathing rate and oxygen uptake; volumes Ventilation ny strengths and areas for development so far. ources to support learning: Knowledge organiser, http://www.a-levelnotes.co.uk/biology-ocr-as-notes-foundations-in-biology-nucleotides-and-nucleic-acids.html, http://www.a-levelnotes.co.uk/biology-ocr-as-notes-foundationsin-biology-enzymes.html FFET Award Challenge for this Learning Programme:

You have learnt about biological molecules and cell membranes. Create a poster of a cell membrane, linking your knowledge of biological molecules to its structure.