

PCHS Curriculum Information – Year 13 AAQ Applied Human Biology

Course Title: AAQ Advanced National in Human Biology	Exam Board: Cambridge OCR	Specification Code: Extended Certificate H149
How will students be assessed? OCR Level 3 Alternative Academic Qualification Cambridge Advanced National in Human Biology (Extended Certificate) For this qualification, students must complete six units: • Two mandatory externally assessed units • Two mandatory NEA units • Two optional NEA units Year 12: F170 Fundamentals of human biology – Mandatory exam unit F171 Health and disease – Mandatory exam unit F172 Genetics – Mandatory coursework unit Year 13: F173 Biomedical techniques – Mandatory coursework unit The following optional units have been chosen: F174 Nutrition and metabolism F175 Human reproduction		

F173: Biomedical techniques In this unit you will build on knowledge covered in F170 Fundamentals of human biology linked to cells, tissues and microbiology. You will learn: • how to plan and carry out investigations using a variety of laboratory techniques • analysis of biochemicals that reveal diseases and	F174: Nutrition and Metabolism In this unit you will build on knowledge covered in F170 Fundamentals of human biology and F171 Health and Disease linked to nutrition. You will learn: • how to identify biomolecules required for the maintenance of health • how food labels provide a	F175: Human Reproduction In this unit you will build on knowledge covered in F170 fundamentals in human biology and F171 health and disease linked to reproduction. You will learn • how life is created through reproduction • the development of a zygote embryo and foetus • the process of pregnancy and antenatal care
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disorders ●investigate techniques such as chromatography, microscopy, and titration ●laboratory techniques used in biomedical laboratories and how they are used for diagnosis	guide for recommended daily intake ●how the dietary needs of individuals with health issues and how they are associated with poor diet. ●how metabolic pathways and hormones control certain nutrients and their involvement in hunger. ●some techniques used to diagnose, monitor and treat conditions associated with nutritional.	●methods of contraception ●how individuals find it difficult to conceive ●how modern medicine treats infertility
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Half Term	Key Content		
	Teacher 1: SBR	Teacher 2: KE	Teacher 2: YA
1	Unit F171: Health and disease Topic Area 2 Curative management and preventative therapies Topic Area 3 The role of immunology F175: Human Reproduction Topic area 1: Conception and pregnancy	Unit F171: Health and disease Topic Area 1 Causes and effects of diseases and disorders Topic Area 3 The role of immunology F174: Nutrition and Metabolism Topic area 1: Nutrients required for a healthy body	Unit F171: Health and disease Topic Area 5 Reporting, research and confidentiality F173: Biomedical techniques Topic area 1: What biomedical science is
2	F175: Human Reproduction Topic area 1: Conception and pregnancy Topic area 2: Pregnancy (antenatal) care Prepare for exam January 2027	F174: Nutrition and Metabolism Topic area 1: Nutrients required for a healthy body Topic area 2: Diets and disorders Prepare for exam January 2027	F173: Biomedical techniques Topic area 1: What biomedical science is Topic area 2: Diagnostic techniques and microscopy Prepare for exam January 2027
3	F175: Human Reproduction Topic area 3: infertility NEA coursework	F174: Nutrition and Metabolism Topic area 3: Metabolic pathways and control mechanisms NEA coursework	F173: Biomedical techniques Topic area 3: Diagnostic techniques of biological molecules. NEA coursework
4	F175: Human Reproduction Topic area 4: Assisted reproduction	F174: Nutrition and Metabolism Topic area 4: Diagnosis, monitoring and treatment	F173: Biomedical techniques Topic area 4: Planning a clinical investigation

	NEA coursework	for nutritional/ metabolic disorders NEA coursework	Topic area 5: Report writing NEA coursework
5	F175: Human Reproduction Finalising NEA coursework	F174: Nutrition and Metabolism Finalising NEA coursework	F173: Biomedical techniques Finalising NEA coursework