Biddulph High School Curriculum Intent:

To deliver a broad and enriching curriculum through engaging and challenging lessons that provide a wide range of opportunities for all students to achieve their potential. Students will all be prepared to take their next steps in a diverse and ever changing future ready to make a positive contribution to society. Through a broad programme of extracurricular activities students will have the opportunities to showcase their talents and experience new challenges. We value individuals and all that they can offer as well as supporting each other with kindness and empathy.

Curriculum Intent for BTEC Applied Human Biology:

'In biology, nothing is clear, everything is too complicated, everything is a mess, and just when you think you understand something, you peel off a layer and find deeper complications beneath. Nature us anything but simple' - Richard Preston

Biology is a subject that all students will encounter every day. At some point in their life, students will have to engage with health and disease; understanding the implications and actions that may be put above them. Our aim is to educate students will the fundamental biological concepts that impact every human's physiology and biochemistry. We endeavour to interest and challenge students by applying their theoretical knowledge to practical applications. Our broad objective is to promote questioning within the subject, making students think of methods to question and test what they have learnt. Our curriculum follows from what was covered in KS4, allowing students to make a smoother transition to KS5. With this course, many students are able to access further studies in healthcare and nursing.

All teachers will follow the scheme of work provided by the department. This will ensure that all students receive the same high-quality provision. All units of work will provide a clear outline of the knowledge and skills required and assessments will ensure that this knowledge has been retained and that skills can be evidenced. Teachers will ensure that gaps are closed through regular monitoring within the classroom. DINT activities will allow for interleaving and recap of previous learning. Misconceptions will be identified through effective questioning and the regular inspection of student work.

Applied Human Biology Long Term Plans						
Year Group	**Autumn 1**	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
12	Unit 1- Principles of Applied Human Biology Unit 2- Practical Microbiology and Infectious Diseases	Unit 1- Principles of Applied Human Biology Unit 2- Practical Microbiology and Infectious Diseases	Unit 1- Principles of Applied Human Biology Unit 2- Practical Microbiology and Infectious Diseases	Unit 1- Principles of Applied Human Biology Unit 2- Practical Microbiology and Infectious Diseases	Unit 1- Principles of Applied Human Biology Unit 2- Practical Microbiology and Infectious Diseases	Unit 2- Practical Microbiology and Infectious Diseases
13	Unit 3- Human Biology and Health Issues Unit 4- Functional Physiology	Unit 3- Human Biology and Health Issues Unit 4- Functional Physiology	Unit 3- Human Biology and Health Issues Unit 4- Functional Physiology	Unit 3- Human Biology and Health Issues Unit 4- Functional Physiology	Unit 3- Human Biology and Health Issues Unit 4- Functional Physiology	Unit 4- Functional Physiology

Applied Human Biology: Medium Term Overview			
Year 12	**Autumn Term 1**	**Unit Title: Principles of Applied Human Biology** **Practical Microbiology and Infectious Diseases**	**No of Lessons: 28 (Approx.)**
Overview/Intent	In unit 1, learners will study how the human body functions at a genetic, cellular and tissue level. In unit 2, learners will investigate the effect of antimicrobial agents on the growth of microorganisms, by selecting and applying knowledge of microorganisms and infectious diseases. They will draw on their wider scientific understanding and skills to plan and carry out a range of practical techniques.		
Essential Knowledge (what must students know): • Cells, tissues and biological molecules. Learners will understand the relationship between the structure, function and activities in cells and tissues. Knowledge of specific chemical structures is only for those molecules listed under the heading of 'structure and function of specific biological molecules'. Where understanding of a polymer is required, learners are expected to know these in general terms of functional groups of monomers and the type of linkages formed in polymers, both between monomers and chains of the polymer.	**Essential Skills (what must students be able to demonstrate):** **Students will be able to:** • Research the different types of microorganisms and describe their features. • Plan a practical experiment to culture microorganisms.	**Lessons:** • Carbohydrates • Lipids • Structure of proteins • Types of proteins • Nucleic acids • ATP • Biological molecules assessment • Eukaryotic cells • Fluid mosaic model • Magnification	

• Learners will investigate the types of pathogen and their characteristics and understand their mechanisms of virulence. They will be able to apply their fundamental understanding of the structure of cells and normal cell/tissue activity from Unit 1: Principles of Applied Human Biology to explore the virulent nature of pathogens and how they can cause infection and disease. **Terminology:** Organelles Monomer Polymer		• Diffusion and facilitated diffusion • Osmosis • Methods of transmission • Innate Immunity • Adaptive Immunity • Active and passive immunity • Primary and secondary immunity • Vaccination • Immunity Assessment • Nucleic acids • DNA and RNA • DNA Replication • Genetic code • DNA Assessment • Transcription • Translation • Splicing and mutation • Practical examinations • Lab report write-up
Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 12	**Autumn Term 2**	**Unit Title: Principles of Applied Human Biology** **Practical Microbiology and Infectious Diseases**	**No of Lessons: 28 (Approx.)**

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<tr><td>Overview/Intent</td><td colspan="2">In unit 1, learners will study how the human body functions at a genetic, cellular and tissue level. In unit 2, learners will investigate the effect of antimicrobial agents on the growth of microorganisms, by selecting and applying knowledge of microorganisms and infectious diseases. They will draw on their wider scientific understanding and skills to plan and carry out a range of practical techniques.</td></tr>
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Terminology:
Respiration
Genetic
Disease</td><td>Essential Skills (what must students be able to demonstrate):

Students will be able to:

• Research the different types of microorganisms and describe their features.
• Plan a practical experiment to culture microorganisms.</td><td>Lessons:
• Active transport
• Cells Assessment
• Glycolysis and the link reaction
• Krebs Cycle
• Oxidative phosphorylation
• Anaerobic respiration
• Cell cycle
• Mitosis
• Meiosis
• Homeostasis and temperature
• Allergies and allergens
• Autoimmune diseases
• Genetic diseases
• Sex Linkage
• Chromosomal disorders
• Tumours and oncogenes
• Practical examinations
• Lab report write-up</td></tr>
<tr><td>Careers Links:

As above</td><td>Enrichment:

/</td><td>MYPB:

Resilience
Evaluation</td></tr>
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Terminology:</td><td>Essential Skills (what must students be able to demonstrate):

Students will be able to:

• Research the different types of microorganisms and describe their features.
• Plan a practical experiment to culture microorganisms.
• Students must evaluate each method used to culture microorganisms and explain which one to use in different circumstances.</td><td>Lessons:
• Ventilation and gas exchange
• Structure of the kidney
• Osmoregulation
• Digestion
• The pancreas and diabetes
• Cell adaptations to injury
• Observation of vital signs
• Electrocardiograms
• Blood testing
• Neurones and synapses
• Nervous transmission
• Organisation of the nervous system
• Reflexes
• Blood vessels
• Blood and lymph fluid
• The heart
• Control of heart rate
• Cardiovascular disease
• Practical examinations
• Lab report write-up</td></tr>
</table>

Neurones Transport Communication		
Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 12	**Spring Term 2**	**Unit Title: Principles of Applied Human Biology** **Practical Microbiology and Infectious Diseases**	**No of Lessons: 24 (Approx.)**
Overview/Intent	In unit 1, learners will study how the human body functions at a genetic, cellular and tissue level. In unit 2, learners will investigate the effect of antimicrobial agents on the growth of microorganisms, by selecting and applying knowledge of microorganisms and infectious diseases. They will draw on their wider scientific understanding and skills to plan and carry out a range of practical techniques.		
Essential Knowledge (what must students know): • Cells, tissues and biological molecules. Learners will understand the relationship between the structure, function and activities in cells and tissues. Knowledge of specific chemical structures is only for those molecules listed under the heading of 'structure and function of specific biological molecules'. Where understanding of a polymer is required, learners are expected to know these in general terms of functional groups of monomers and the type of linkages formed in polymers, both between monomers and chains of the polymer. • Learners will investigate the types of pathogen and their characteristics and understand their mechanisms of virulence. They will be able to apply their fundamental understanding of the structure of cells and normal cell/tissue activity from Unit 1: Principles	**Essential Skills (what must students be able to demonstrate):** **Students will be able to:** • Research the different types of microorganisms and describe their features. • Plan a practical experiment to culture microorganisms. • Students must evaluate each method used to culture microorganisms and explain which one to use in different circumstances. • Students must plan a practical experiment to evaluate the effectiveness of different antimicrobials.	**Lessons:** • Exam Preparation • Practical examinations • Lab report write-up

of Applied Human Biology to explore the virulent nature of pathogens and how they can cause infection and disease. **Terminology:** Reliability Accuracy Validity		
Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 12	**Summer Term 1**	**Unit Title: Principles of Applied Human Biology** **Practical Microbiology and Infectious Diseases**	**No of Lessons: 14 (Approx.)**
Overview/Intent	In unit 1, learners will study how the human body functions at a genetic, cellular and tissue level. In unit 2, learners will investigate the effect of antimicrobial agents on the growth of microorganisms, by selecting and applying knowledge of microorganisms and infectious diseases. They will draw on their wider scientific understanding and skills to plan and carry out a range of practical techniques.		
Essential Knowledge (what must students know): • Learners will investigate the types of pathogen and their characteristics and understand their mechanisms of virulence. They will be able to apply their fundamental understanding of the structure of cells and normal cell/tissue activity from Unit 1: Principles of Applied Human Biology to explore the virulent nature of pathogens and how they can cause infection and disease. **Terminology:** Reliability Accuracy Validity	**Essential Skills (what must students be able to demonstrate):** **Students will be able to:** • Research the different types of microorganisms and describe their features. • Plan a practical experiment to culture microorganisms. • Students must evaluate each method used to culture microorganisms and explain which one to use in different circumstances.	**Lessons:** • Practical examinations • Lab report write-up	

	• Students must plan a practical experiment to evaluate the effectiveness of different antimicrobials.	
Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 12	**Summer Term 2**	**Unit Title: Practical Microbiology and Infectious Diseases**	**No of Lessons: 24 (Approx.)**
Overview/Intent	In unit 1, learners will study how the human body functions at a genetic, cellular and tissue level. In unit 2, learners will investigate the effect of antimicrobial agents on the growth of microorganisms, by selecting and applying knowledge of microorganisms and infectious diseases. They will draw on their wider scientific understanding and skills to plan and carry out a range of practical techniques.		
Essential Knowledge (what must students know): • Learners will investigate the types of pathogen and their characteristics and understand their mechanisms of virulence. They will be able to apply their fundamental understanding of the structure of cells and normal cell/tissue activity from Unit 1: Principles of Applied Human Biology to explore the virulent nature of pathogens and how they can cause infection and disease. **Terminology:** Accuracy Validity Reliability	**Essential Skills (what must students be able to demonstrate):** **Students will be able to:** • Research the different types of microorganisms and describe their features. • Plan a practical experiment to culture microorganisms. • Students must evaluate each method used to culture microorganisms and explain which one to use in different circumstances. • Students must plan a practical experiment to evaluate the effectiveness of different antimicrobials.	**Lessons:** • Practical examinations • Lab report write-up	
Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation	

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<tr><td>Year 13</td><td>Autumn Term 1</td><td>Unit Title: Human Biology and Health Issues
Functional Physiology</td><td>No of Lessons: 28 (Approx.)</td></tr>
<tr><td>Overview/Intent</td><td colspan="3">In unit 3, learners will further develop their understanding of human biology and skills in researching and evaluating the impact of health issues, initiatives and scientific reporting. In unit 4, learners will explore the muscular, skeletal, endocrine and nervous systems, their associated disorders and the role of homeostasis in controlling and coordinating the body systems.</td></tr>
<tr><td colspan="2">Essential Knowledge (what must students know):

• In this unit, students will interpret, analyse and evaluate scientific information related to health issues and initiatives and explore the presentation of this information for a defined purpose and audience. Students will further your knowledge of human biology from Unit 1: Principles of Applied Human Biology and Unit 2: Practical Microbiology and Infectious Disease; to explore the impact of health issues on the world we live in, further developing skills of analysis and interpretation. Students will consider a range of health issues and associated initiatives from developments in food nutrition and healthy diets to advances in medical treatments, including stem cell therapy and genetic engineering.
• Physiology, the working of the human body, is a fascinating topic. In this unit, students will have the opportunity to explore growth and development of four body systems and homeostasis and its role in the body. There will be opportunity to research common disorders, their causes in relation to these systems and the impact they have on a person’s life. The unit provides a strong foundation for human biology study, it gives students theoretical knowledge of the structure, function and role of the muscular, skeletal, nervous and endocrine systems.
Terminology:</td><td>Essential Skills (what must students be able to demonstrate):

Students will be able to:

• Demonstrate knowledge and understanding of health issues and associated initiatives and reporting.
• Apply understanding of health issues and associated initiatives and reporting.
• Be able to interpret, analyse and evaluate different sources of scientific information.
• Be able to synthesise different sources of scientific information.</td><td>Lessons:
• Understand health issues and associated initiatives and research
• Understand the influence of organisations/individuals on health issues
• Interpret, analyse and evaluate scientific information
• Interpret, analyse and evaluate scientific information
• Musculoskeletal system</td></tr>
</table>

Accuracy Validity Reliability		
Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 13	**Autumn Term 2**	**Unit Title: Human Biology and Health Issues** **Functional Physiology**	**No of Lessons: 28 (Approx.)**
Overview/Intent	In unit 3, learners will further develop their understanding of human biology and skills in researching and evaluating the impact of health issues, initiatives and scientific reporting. In unit 4, learners will explore the muscular, skeletal, endocrine and nervous systems, their associated disorders and the role of homeostasis in controlling and coordinating the body systems.		
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Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 13	**Spring Term 1**	**Unit Title: Human Biology and Health Issues** **Functional Physiology**	**No of Lessons: 21 (Approx.)**
Overview/Intent	In unit 3, learners will further develop their understanding of human biology and skills in researching and evaluating the impact of health issues, initiatives and scientific reporting. In unit 4, learners will explore the muscular, skeletal, endocrine and nervous systems, their associated disorders and the role of homeostasis in controlling and coordinating the body systems.		
Essential Knowledge (what must students know): • In this unit, students will interpret, analyse and evaluate scientific information related to health issues and initiatives and explore the presentation of this information for a defined purpose and audience.		**Essential Skills (what must students be able to demonstrate):** **Students will be able to:**	**Lessons:** • Understand health issues and associated initiatives and research • Understand the influence of organisations/individuals on health issues • Interpret, analyse and evaluate scientific information

Students will further your knowledge of human biology from Unit 1: Principles of Applied Human Biology and Unit 2: Practical Microbiology and Infectious Disease; to explore the impact of health issues on the world we live in, further developing skills of analysis and interpretation. Students will consider a range of health issues and associated initiatives from developments in food nutrition and healthy diets to advances in medical treatments, including stem cell therapy and genetic engineering. • Physiology, the working of the human body, is a fascinating topic. In this unit, students will have the opportunity to explore growth and development of four body systems and homeostasis and its role in the body. There will be opportunity to research common disorders, their causes in relation to these systems and the impact they have on a person's life. The unit provides a strong foundation for human biology study, it gives students theoretical knowledge of the structure, function and role of the muscular, skeletal, nervous and endocrine systems. **Terminology:** Accuracy Validity Reliability	• Demonstrate knowledge and understanding of health issues and associated initiatives and reporting. • Apply understanding of health issues and associated initiatives and reporting. • Be able to interpret, analyse and evaluate different sources of scientific information. • Be able to synthesise different sources of scientific information.	• Interpret, analyse and evaluate scientific information • Nervous and endocrine systems
Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 13	**Spring Term 2**	**Unit Title: Human Biology and Health Issues**	**No of Lessons: 24 (Approx.)**

		Functional Physiology	
Overview/Intent	In unit 3, learners will further develop their understanding of human biology and skills in researching and evaluating the impact of health issues, initiatives and scientific reporting. In unit 4, learners will explore the muscular, skeletal, endocrine and nervous systems, their associated disorders and the role of homeostasis in controlling and coordinating the body systems.		
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Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 13	**Summer Term 1**	**Unit Title: Human Biology and Health Issues** **Functional Physiology**	**No of Lessons: 14 (Approx.)**
Overview/Intent	In unit 3, learners will further develop their understanding of human biology and skills in researching and evaluating the impact of health issues, initiatives and scientific reporting. In unit 4, learners will explore the muscular, skeletal, endocrine and nervous systems, their associated disorders and the role of homeostasis in controlling and coordinating the body systems.		
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Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation

Applied Human Biology: Medium Term Overview			
Year 13	**Summer Term 2**	**Unit Title: Human Biology and Health Issues** **Functional Physiology**	**No of Lessons: 24 (Approx.)**
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Careers Links: As above	**Enrichment:** /	**MYPB:** Resilience Evaluation