

## AAQ Applied Science – Long Term Plan

<b>Year 12 – BTEC Nationals Applied Science</b>	
<b>Term</b>	<b>Topics/Knowledge</b>
<ul style="list-style-type: none"> <li>• Autumn 1</li> </ul>	<ul style="list-style-type: none"> <li>• Biology               <ul style="list-style-type: none"> <li>○ A: Structure and Function of Cells and Tissues</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ A: Atomic and Electronic Structure</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ A: Understanding Waves and Optical Fibres</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Autumn 2</li> </ul>	<ul style="list-style-type: none"> <li>• Reteach Week 1</li> <li>• Biology               <ul style="list-style-type: none"> <li>○ A: Structure and Function of Cells and Tissues</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ B: Bonding and Structure</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ B: Forces in Transportation and Newtons Laws of Motion</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Spring 1</li> </ul>	<ul style="list-style-type: none"> <li>• Reteach Week 2</li> <li>• Biology               <ul style="list-style-type: none"> <li>○ B Structure and Function of Biological Molecules</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ B: Bonding and Structure</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ B: Forces in Transportation and Newtons Laws of Motion</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Spring 2</li> </ul>	<ul style="list-style-type: none"> <li>• Reteach Week 3</li> <li>• Biology               <ul style="list-style-type: none"> <li>○ B Structure and Function of Biological Molecules</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ C: Periodicity</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ B: Forces in Transportation and Newtons Laws of Motion</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Summer 1</li> </ul>	<ul style="list-style-type: none"> <li>• Reteach Week 4</li> <li>• Biology               <ul style="list-style-type: none"> <li>○ C Cellular Transport and Enzyme Activity</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ D: Physical Chemistry</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ C: Electrical Circuits and the Transfer of Energy</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Summer 2</li> </ul>	<ul style="list-style-type: none"> <li>• Biology               <ul style="list-style-type: none"> <li>○ C Cellular Transport and Enzyme Activity</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ E: Organic Chemistry</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ C: Electrical Circuits and the Transfer of Energy</li> </ul> </li> <li>• Reteach Week 5</li> </ul>

## AAQ Applied Science – Long Term Plan

<b>Year 13 – BTEC Nationals Applied Science</b>	
<b>Term</b>	<b>Topics/Knowledge</b>
<ul style="list-style-type: none"> <li>• Autumn 1</li> </ul>	<ul style="list-style-type: none"> <li>• Biology               <ul style="list-style-type: none"> <li>○ Unit 4 – Task 2 Effect of Light on Plant Growth</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ Unit 4 – Task 1a Standard Solution and Titration</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ Unit 4 – Task 3a Rate of Transfer of Thermal Energy</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Autumn 2</li> </ul>	<ul style="list-style-type: none"> <li>• Reteach Week 1</li> <li>• Biology               <ul style="list-style-type: none"> <li>○ Unit 4 - Colorimetry</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ Unit 4 - Task 1b Purity of Aspirin</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ Unit 4 – Task 3b Resistivity in Electrical Circuits</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Spring 1</li> </ul>	<ul style="list-style-type: none"> <li>• Reteach Week 2</li> <li>• Biology               <ul style="list-style-type: none"> <li>○ Unit 4 - Task 4: Review of Practical Skills Report</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 1 Literature Research</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ Unit 4 – Task 3c Energy Transfer from a Renewable Resource</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Spring 2</li> </ul>	<ul style="list-style-type: none"> <li>• Reteach Week 3</li> <li>• Biology               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 1 Literature Research</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 1 Literature Research</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 1 Literature Research</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Summer 1</li> </ul>	<ul style="list-style-type: none"> <li>• Reteach Week 4</li> <li>• Biology               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 2 Practical</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 2 Practical</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 2 Practical</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Summer 2</li> </ul>	<ul style="list-style-type: none"> <li>• Biology               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 3 Report Writing</li> </ul> </li> <li>• Chemistry               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 3 Report Writing</li> </ul> </li> <li>• Physics               <ul style="list-style-type: none"> <li>○ Unit 5 – Task 3 Report Writing</li> </ul> </li> <li>• Reteach Week 5</li> </ul>