

# **Year 7 Biology**

## **Spring 2 Level Ladder**

**All students are expected to master at least the Level 4 content by the end of the half term.**

**Check Arbor or ask your child what their current working and target level is in science**

**Topics: Organs and digestion**

**EG:**

4A - mastered all of the Level 4 content

4B - mastered some of the Level 4 content

4C - mastered all of the Level 3 content and beginning to master some Level 4 content

Level	Sample tasks
3	<p data-bbox="354 302 1321 407">1. This is a basic drawing of digestion organs. Label them.</p> <div data-bbox="451 512 912 1486"></div>
4	<p data-bbox="354 1818 1289 1871">1. <b>Describe</b> where we get starch and sugar.</p>

	<p>2. <b>Describe</b> what an enzyme does.</p>
5	<p>1. <b>Compare</b> starch and sugar.</p> <p>2. <b>Explain how</b> fat gets broken down.</p> <p>3. <b>Explain</b> 3 ways the stomach breaks down food.</p>
6	<p>1. <b>Link</b> enzymes to previous topics such as pH.</p> <p>2. <b>Suggest how bile links</b> to neutralisation.</p>

# **Year 7 Physics**

## **Autumn 1 Level Ladder**

**All students are expected to master at least the Level 4 content by the end of the half term.**

**Check Arbor or ask your child what their current working and target level is in science**

**Topics: Electricity part 2**

**EG:**

4A - mastered all of the Level 4 content

4B - mastered some of the Level 4 content

4C - mastered all of the Level 3 content and beginning to master some Level 4 content

Level	Sample tasks
3	<ol style="list-style-type: none"><li data-bbox="402 306 1412 401">1. Say what the tiny negative charges that move around the circuit are called.</li><li data-bbox="402 422 1412 516">2. Say where the voltage comes from in a circuit.</li></ol>
4	<ol style="list-style-type: none"><li data-bbox="354 621 1412 779">1. <b>Describe</b> what these words mean:<ol style="list-style-type: none"><li data-bbox="402 684 602 726">a. current</li><li data-bbox="402 737 602 779">b. voltage</li></ol></li><li data-bbox="354 852 1412 947">2. <b>Describe</b> what happens to current in a series circuit.</li><li data-bbox="354 1020 1412 1115">3. <b>Describe</b> what happens to voltage in a series circuit.</li></ol>
5	<ol style="list-style-type: none"><li data-bbox="354 1167 1412 1262">1. <b>Compare</b> voltage and current in a series circuit.</li><li data-bbox="354 1335 1412 1388">2. <b>Explain</b> what voltage is.</li></ol>
6	<ol style="list-style-type: none"><li data-bbox="354 1430 1412 1524">1. <b>Suggest</b> a model for explaining voltage and current, <b>evaluating</b> it.</li></ol>

# **Year 7 Chemistry**

## **Autumn 1 Level Ladder**

**All students are expected to master at least the Level 4 content by the end of the half term.**

**Check Arbor or ask your child what their current working and target level is in science**

**Topics: Simple Chemical Reactions**

**EG:**

4A - mastered all of the Level 4 content

4B - mastered some of the Level 4 content

4C - mastered all of the Level 3 content and beginning to master some Level 4 content

Level	Sample tasks
3	<ol style="list-style-type: none"><li data-bbox="354 302 997 352">1. <b>Say</b> what reversible means.</li><li data-bbox="354 415 1166 466">2. <b>Say</b> what carbon dioxide gas is like.</li><li data-bbox="354 529 1172 579">3. <b>Name</b> the 3 parts of the fire triangle.</li></ol>
4	<ol style="list-style-type: none"><li data-bbox="354 621 1386 722">1. <b>Describe</b> what a physical reaction is. Give an example.</li><li data-bbox="354 785 1256 835">2. <b>Describe</b> how to test for carbon dioxide.</li><li data-bbox="354 898 1055 949">3. <b>Describe</b> how to put out a fire.</li></ol>
5	<ol style="list-style-type: none"><li data-bbox="354 1052 1010 1102">1. <b>Explain</b> what combustion is.</li><li data-bbox="354 1165 1328 1215">2. <b>Explain</b> combustion using a word equation.</li></ol>
6	<ol style="list-style-type: none"><li data-bbox="402 1371 1354 1472">1. <b>Use</b> the test for gases to prove products of combustion.</li></ol>

**In science in year 7, students study the sciences as three separate subjects.**

**Each week students will have one physics lesson, one chemistry lesson and one biology lesson.**

**Students will be assessed on their understanding of each science.**

**Students will be given one level for science (rather than three separate ones) each half term. This will be the mean across the three sciences.**