

**Subject**  
**Science – Biology**

**Yr 9**  
**Autumn Term 1**

**Time of Assessment**  
**Rotation 1 – Date TBC**

**Knowledge to be Assessed:**

- CB1** Key Concepts in Biology (Paper 1 and Paper 2)
- CB1a** Microscopes
- CB1b** Plant and animal cells
- CB1b** Core practical – Using microscopes
- CB1c** Specialised cells
- CB1d** Inside bacteria
- CB1e** Enzymes and nutrition
- CB1f** Enzyme action
- CB1g** Enzyme activity
- CB1g** Core practical – pH and enzymes
- CB1h** Transporting substances
- CB1h** Core practical – Osmosis in potato slices

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



**Skills to be assessed:**

There us a detailed revision list for this unit here: <https://tinyurl.com/hkn2f6z6>

**Resources to help Revision:**

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

<https://www.bbc.co.uk/bitesize/topics/zy9ww6f>

Students should also check the **MS Team** for their individual class. Additionally, they have access to the **Active Learn** platform where they can use an electronic copy of the course textbook

Revision guides are also available to purchase through school

**Grade Descriptors: How the assessment is graded?**

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 24% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 39% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 62% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 63% and 84% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 85% of content.

**Subject  
Science – Biology**

**Yr 9  
Spring Term 1**

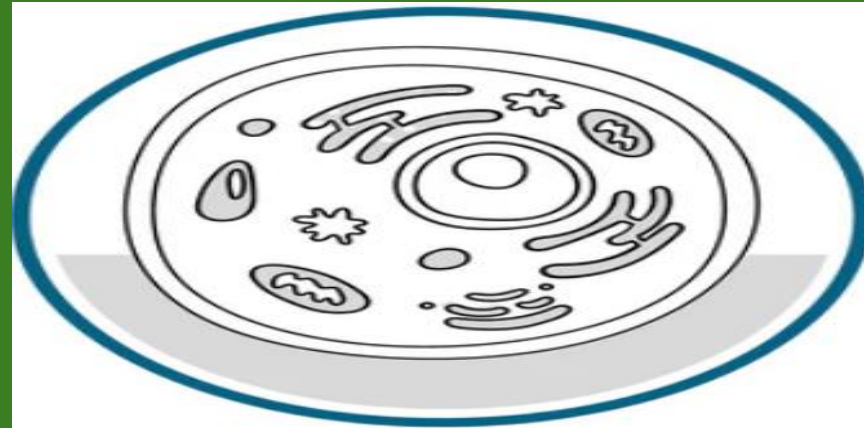
**Time of Assessment  
Rotation 2 – Date TBC**

**Knowledge to be Assessed:**

<b>CB2</b>	<b>Cells and Control (Paper 1)</b>
CB2a	Mitosis
CB2b	Growth in animals
CB2c	Growth in plants
CB2d	Stem cells
CB2e	The nervous system
CB2f	Neurotransmission speeds
CB2	Preparing for your exams
<b>CB3</b>	<b>Genetics (Paper 1)</b>
CB3a	Meiosis
CB3bi	DNA
CB3bii	DNA extraction
CB3c	Alleles
CB3d	Inheritance
CB3e	Gene mutation
CB3f	Variation

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

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**Skills to be assessed:**

**B2 Detailed Revision Checklist**  
<https://tinyurl.com/2s4h286n>

**B3 Detailed Revision Checklist**  
<https://tinyurl.com/yd2r3btt>

**Resources to help Revision:**

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

<https://www.bbc.co.uk/bitesize/topics/zpg997h>

<https://www.bbc.co.uk/bitesize/topics/zxyggdm>

Students should also check the **MS Team** for their individual class. Additionally, they have access to the **Active Learn** platform where they can use an electronic copy of the course textbook

Revision guides are also available to purchase through school

**Grade Descriptors: How the assessment is graded?**

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 19% of content.	Students show partial science knowledge. Students demonstrate an understanding between 20% and 30% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 31% and 51% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 52% and 84% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 85% of content.

**Subject**  
**Science – Chemistry**

**Yr 9**  
**Autumn Term 1**

**Time of Assessment**  
**Rotation 1 – Date TBC**

**Knowledge to be Assessed:**

<b>CC1</b>	<b>States of Matter</b>
<b>CC2</b>	<b>Methods of Separating and Purifying Substances (Paper 3)</b>
<b>CC1a</b>	States of matter
<b>CC2a</b>	Mixtures
<b>CC2b</b>	Filtration and crystallisation
<b>CC2c</b>	Paper chromatography
<b>CC2d</b>	Distillation
<b>CC2d</b>	Core practical – Investigating inks
<b>CC2e</b>	Drinking water

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



**Skills to be assessed:**

**CC1/CC2 Detailed Revision Checklist**  
<https://tinyurl.com/39uyren4>

**Resources to help Revision:**

There are detailed notes, videos and 'test yourself' activities from BBC Bitesize at these links:

**States of Matter and Mixtures**

<https://www.bbc.co.uk/bitesize/topics/z9766yc>

This link provides sample exam questions with answers and explanations:

<https://www.bbc.co.uk/bitesize/guides/z33smsg/revision/1>

Students can access lesson slides and further revision material through **MS Teams**. Additionally, they have access to the **Active Learn** platform where they can use an electronic copy of the course textbook

**Grade Descriptors: How the assessment is graded?**

<b>Emerging</b>	<b>Developing</b>	<b>Secure</b>	<b>Mastering</b>	<b>Extending</b>
Student show a basic science knowledge. Students score 1-7 marks out of 35.	Students show partial science knowledge. Students score 8-11 marks out of 35.	Students show secure science knowledge. Students score 12-19 marks out of 35.	Students show very good Science knowledge. Students score 20-26 marks out of 35.	Students show comprehensive science knowledge. Students score more than 27 marks out of 35.

**Subject**  
**Science – Chemistry**

**Yr 9**  
**Autumn Term 1**

**Time of Assessment**  
**Rotation 2 – Date TBC**

**Knowledge to be Assessed:**

<b>CC3</b>	<b>Atomic Structure (Paper 3 and Paper 4)</b>
CC3a	Structure of an atom
CC3b	Atomic number and mass number
CC3c	Isotopes
<b>CC4</b>	<b>The Periodic Table (Paper 3 and Paper 4)</b>
CC4a	Elements and the periodic table
CC4b	Atomic number and the periodic table
CC4c	Electronic configurations and the periodic table



**Resources to help Revision:**

There are detailed notes, videos and 'test yourself' activities from BBC Bitesize at these links:

**Atomic Structure**

<https://www.bbc.co.uk/bitesize/guides/zqgm8mn/revision/1>

**The Periodic Table**

<https://www.bbc.co.uk/bitesize/guides/z36cfcw/revision/1>

Students can access lesson slides and further revision material through **MS Teams**. Additionally, they have access to the **Active Learn** platform where they can use an electronic copy of the course textbook

**CC3 Detailed Revision Checklist**

<https://tinyurl.com/2z76b2nc>

**CC4 Detailed Revision Checklist**

<https://tinyurl.com/d5y6ajhz>

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section

**Grade Descriptors: How the assessment is graded?**

<b>Emerging</b>	<b>Developing</b>	<b>Secure</b>	<b>Mastering</b>	<b>Extending</b>
Student show a basic science knowledge. Students score 1-8 marks out of 35.	Students show partial science knowledge. Students score 9-12 marks out of 35.	Students show secure science knowledge. Students score 13-20 marks out of 35.	Students show very good Science knowledge. Students score 21-29 marks out of 35.	Students show comprehensive science knowledge. Students score more than 30 marks out of 35.

**Subject**  
**Science – Physics**

**Yr 9**  
**Assessment 1**

**Time of Assessment:**  
**TBC depending on timetabling rotations**

**Knowledge to be Assessed:**

**CP3 Conservation of Energy (Paper 5)**

- CP3a Energy stores and transfers
- CP3b Energy efficiency
- CP3c Keeping warm
- CP3d Stored energies
- CP3e Non-renewable resources
- CP3f Renewable resources

The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section



**Skills to be assessed:**

There us a detailed revision list for this unit here: <https://tinyurl.com/5n7sf4yb>

**Resources to help Revision:**

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

<https://www.bbc.co.uk/bitesize/guides/zxpwrwx/revision/1>

<https://www.bbc.co.uk/bitesize/guides/zsb6w6f/revision/1>

<https://www.bbc.co.uk/bitesize/guides/zty2k2p/revision/1>

This link provides sample exam questions with answers and explanations:

<https://www.bbc.co.uk/bitesize/guides/zmwyy4j/revision/1>

Students should also check the **MS Team** for their individual class. Additionally, they have access to the Active Learn platform where they can use an electronic copy of the course textbook

**Grade Descriptors: How the assessment is graded?**

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

**Subject**  
**Science – Physics**

**Yr 9**  
**Assessment 2**

**Time of Assessment:**  
**TBC depending on timetabling rotations**

**Knowledge to be Assessed:**

<b>CP1</b>	<b>Motion (Paper 5)</b>
<b>CP1a</b>	Vectors and scalars
<b>CP1b</b>	Distance/time graphs
<b>CP1c</b>	Acceleration
<b>CP1d</b>	Velocity/time graphs



**Skills to be assessed:**

There us a detailed revision list for this unit  
here: <https://tinyurl.com/2a9xutd8>

**Resources to help Revision:**

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

<https://www.bbc.co.uk/bitesize/guides/zgcp7p3/revision/1>

<https://www.bbc.co.uk/bitesize/guides/z2x9v9q/revision/1>

This link provides sample exam questions with answers and explanations:

<https://www.bbc.co.uk/bitesize/guides/ztcrsrd/revision/1>

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The BBC Bitesize links in the 'Resources' section provide a breakdown of each of these subtopics

Please also see the detailed revision list in the 'Skills' section

**Grade Descriptors: How the assessment is graded?**

<b>Emerging</b>	<b>Developing</b>	<b>Secure</b>	<b>Mastering</b>	<b>Extending</b>
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.

**Subject  
Science – Physics**

**Yr 9  
Assessment 3**

**Time of Assessment:  
TBC depending on timetabling rotations**

**Knowledge to be Assessed:**

CP2	Motion and Forces (Paper 5)
CP2a	Resultant forces
CP2b	Newton's First Law
CP2c	Mass and weight
CP2d	Newton's Second Law
CP2d	Core practical – Investigating acceleration
CP2e	Newton's Third Law
CP2f	Momentum
CP2g	Stopping distances
CP2h	Crash hazards



**Resources to help Revision:**

There are detailed notes, videos and 'test yourself' interactives from BBC Bitesize at these links:

<https://www.bbc.co.uk/bitesize/guides/z3rhqhv/revision/1>

<https://www.bbc.co.uk/bitesize/guides/zg9smg/revision/1>

<https://www.bbc.co.uk/bitesize/guides/zxh2qhv/revision/1>

This link provides sample exam questions with answers and explanations:

<https://www.bbc.co.uk/bitesize/guides/ztcrsrd/revision/1>

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**Skills to be assessed:**

There us a detailed revision list for this unit here: <https://tinyurl.com/4jnfe4xm>

**Grade Descriptors: How the assessment is graded?**

Emerging	Developing	Secure	Mastering	Extending
Student show a basic science knowledge. Students demonstrate an understanding of less than 25% of content.	Students show partial science knowledge. Students demonstrate an understanding between 25% and 40% of the content.	Students show secure science knowledge. Students demonstrate an understanding of between 40% and 60% of the content.	Students show very good Science knowledge. Students demonstrate an understanding of between 60% and 75% of the content.	Students show comprehensive science knowledge. Students demonstrate an understanding of more than 75% of content.