



Barnhill

COMMUNITY HIGH SCHOOL

Respect | Wisdom | Aspiration | Community

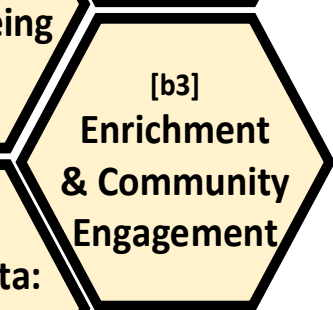
Year 7,8 & 9 Parents' Information Evening

September 2025

Excellent Results 2025!



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Running Order

- ▶ Mrs. Qureshi (Associate Headteacher): *Welcome*
- ▶ Mr. Macauley (KS3 Raising Achievement Leader): *KS3 Assessment & Introduction to Options Process*
- ▶ Miss Raheman (Head of Year 9): *Introduction, Expectations & Notices*
- ▶ Mr. Millington King (Head of Year 8): *Expectations & Notices*
- ▶ Mr. Chentouf (KS3 Maths Leader): *Y8 & Y9 Maths Information*
- ▶ Mr. Spoor (KS3 English Leader): *Y8 & Y9 English Information*
- ▶ Ms Mohobuth (KS3 Science Leader): *Y8 & Y9 Science Information*



RESPECT

We understand that every person is important, and we respect everyone for who they are.

A hexagonal graphic with a gold border. The top half contains a photograph of several hands of different skin tones shaking in a firm grip. The word "RESPECT" is overlaid in white, bold, capital letters. Below the photo is a dark grey hexagonal box containing the text "We understand that every person is important, and we respect everyone for who they are."

WISDOM

We admire the best of human achievements and we aim to become experts.

A hexagonal graphic with a gold border. The top half contains a photograph of the bronze statue "The Thinker" by Auguste Rodin, set against a background of green trees. The word "WISDOM" is overlaid in white, bold, capital letters. Below the photo is a dark grey hexagonal box containing the text "We admire the best of human achievements and we aim to become experts."

ASPIRATION

We enjoy challenges and we aspire to become better tomorrow than we are today.

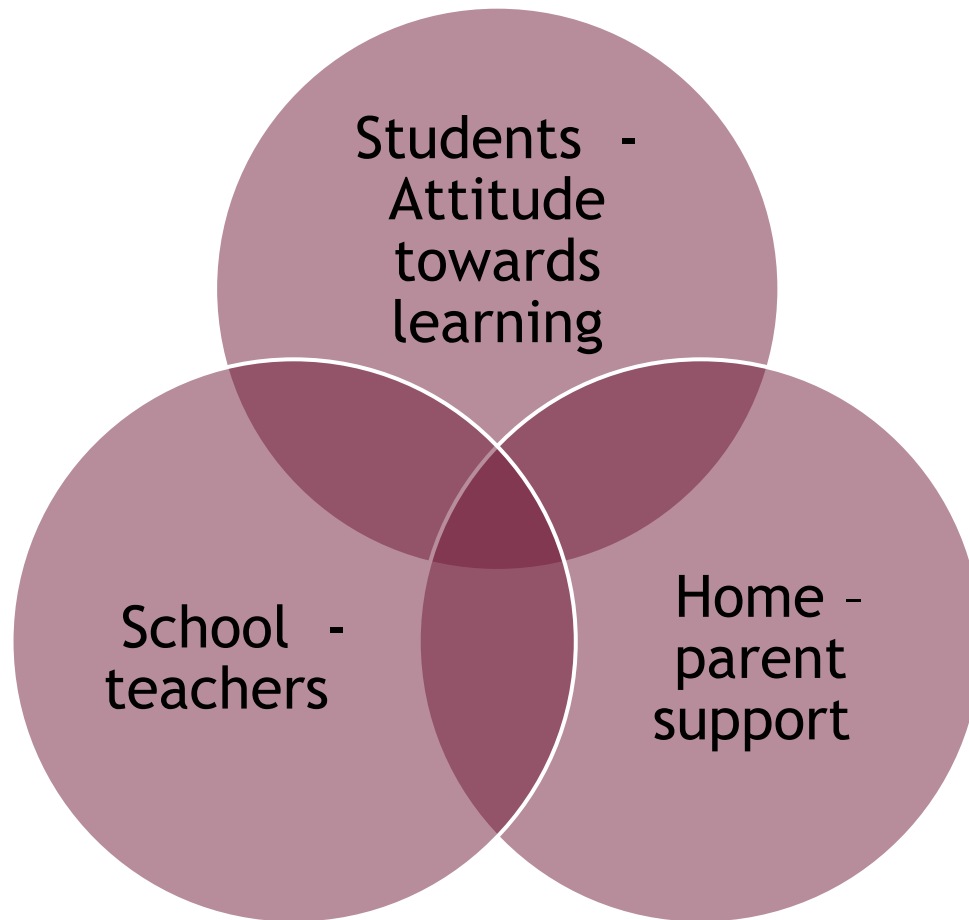
A hexagonal graphic with a gold border. The top half contains a photograph of a snow-capped mountain peak under a blue sky with clouds. The word "ASPIRATION" is overlaid in white, bold, capital letters. Below the photo is a dark grey hexagonal box containing the text "We enjoy challenges and we aspire to become better tomorrow than we are today."

COMMUNITY

We take an active part in our community in order to create belonging, fellowship and identity.

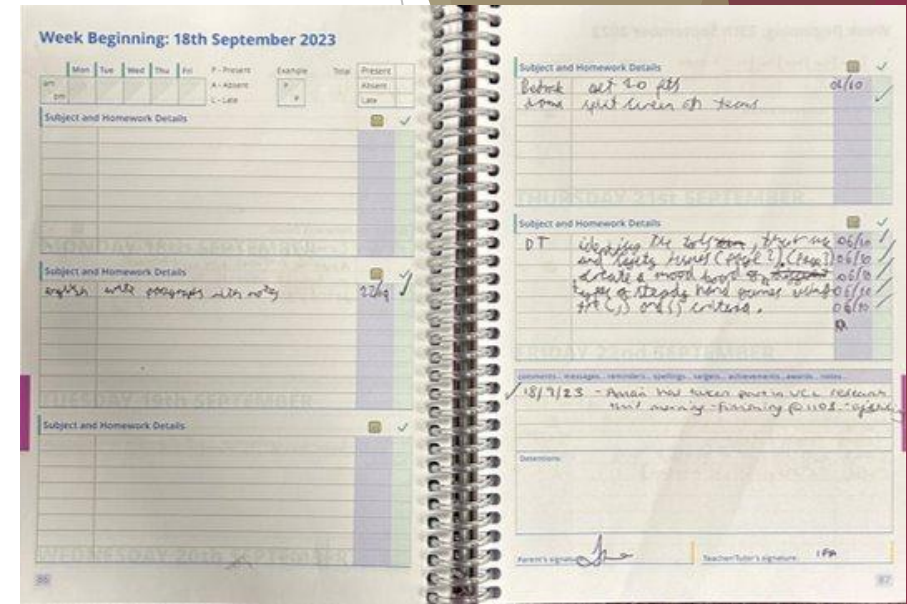
A hexagonal graphic with a gold border. The top half contains a photograph of a large, leafy green tree in a grassy field with a yellow field in the background. The word "COMMUNITY" is overlaid in white, bold, capital letters. Below the photo is a dark grey hexagonal box containing the text "We take an active part in our community in order to create belonging, fellowship and identity."

The most important collaborative partnership



Great example:

1. Teachers plan and set appropriate, purposeful homework
2. Students record in planner and complete independently at home
3. Parents check homework recorded against what is produced - sign



Pastoral Key Contacts

Ms Raheman
Head of Year 9

Craheman@barnhill.school



Mr Millington-King
Head of Year 8

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Mrs Gill
Pastoral Support
Manager Y8

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Ms Aldous
Pastoral Support
Manager Y9

Jaldous@barnhill.school



Achievement/Curriculum Key Contacts



Mrs Qureshi
Associate Headteacher
Achievement

TQureshi@Barnhill.School



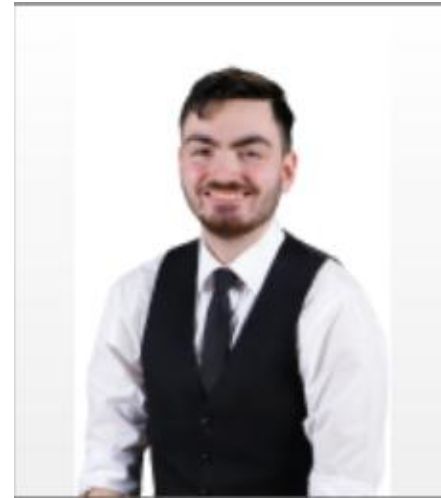
Mr Macauley
KS3 Achievement Lead

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Mr Chentouf
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KS3 English Lead

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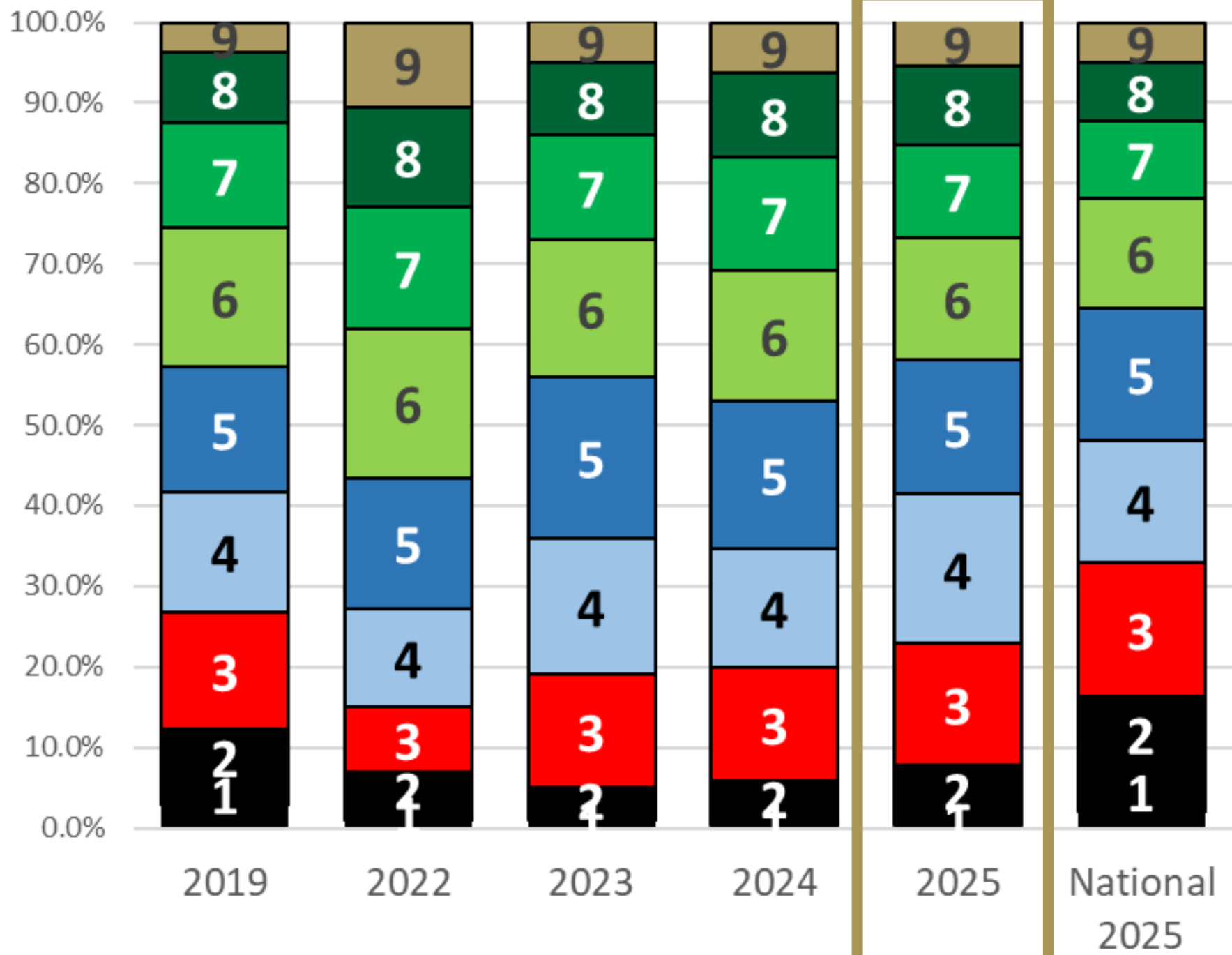


Mrs Mohobuth
KS3 Science Lead

SMohobuth@Barnhill.School

Achievement Headlines

Mr Macauley - KS3 Raising Achievement Leader



Year 11

Mohtisham, Ayaan	9,9,9,9,9,9,9,9,9,8	
Sahibzadeh, Sana	9,9,9,9,9,9,9,9,8	
Pokhrel, Samriddhi	9,9,9,9,9,9,8,8,8	
Omar, Salma	9,9,9,9,9,9,8,8,7	
Pereira, Marc	9,9,9,9,9,9,8,8,D*,7	
Patel, Yug	9,9,9,9,9,9,8,8,8,6	
Mohamoud Nour, Sundus	9,9,9,9,9,9,8,D*,7,6	
Mahmoud, Aisha	9,9,9,9,9,8,8,8,8	
Gill, Kultaran	9,9,9,9,9,8,8,7,7,7	
Luxsujatheepan, Mithusa	9,9,9,9,9,8,8,7,7,7	
Walia, Anika	9,9,9,9,9,8,8,7,7,7	
Khpelwak, Nadia	9,9,9,9,8,8,8,8,7	
Gohil, Hansini	9,9,9,9,8,8,8,7,7	

Koldhar, Aryan	9,9,9,8,8,8,8,D*,6	
Kaoud, Raheem	9,9,9,8,8,8,8,7,6	
Mohamed, Taman	9,9,9,8,8,7,7,7,7	
Moknache, Mohamed	9,9,9,8,8,8,7,6	
Selvanathan, Ajish	9,9,9,8,D*,7,7,7,7,6	
Vyas, Mishka	9,9,9,8,8,D*,7,7,7	
Niloy, Zamiul	9,9,9,8,8,D*,6,6	
Faqiri, Maryam	9,9,8,8,8,8,8,8,7	
Fatima, Noor	9,9,8,8,8,8,8,7,7	
Farakh, Eieshal	9,9,8,8,8,8,7,7,7	
Munse, Arianna	9,9,8,8,8,8,7,7,6	
Ahmed, Samiira	9,9,8,8,8,7,7,6,6	
Deeb, Sham	9,9,8,8,D*,7,7,7,7,6	

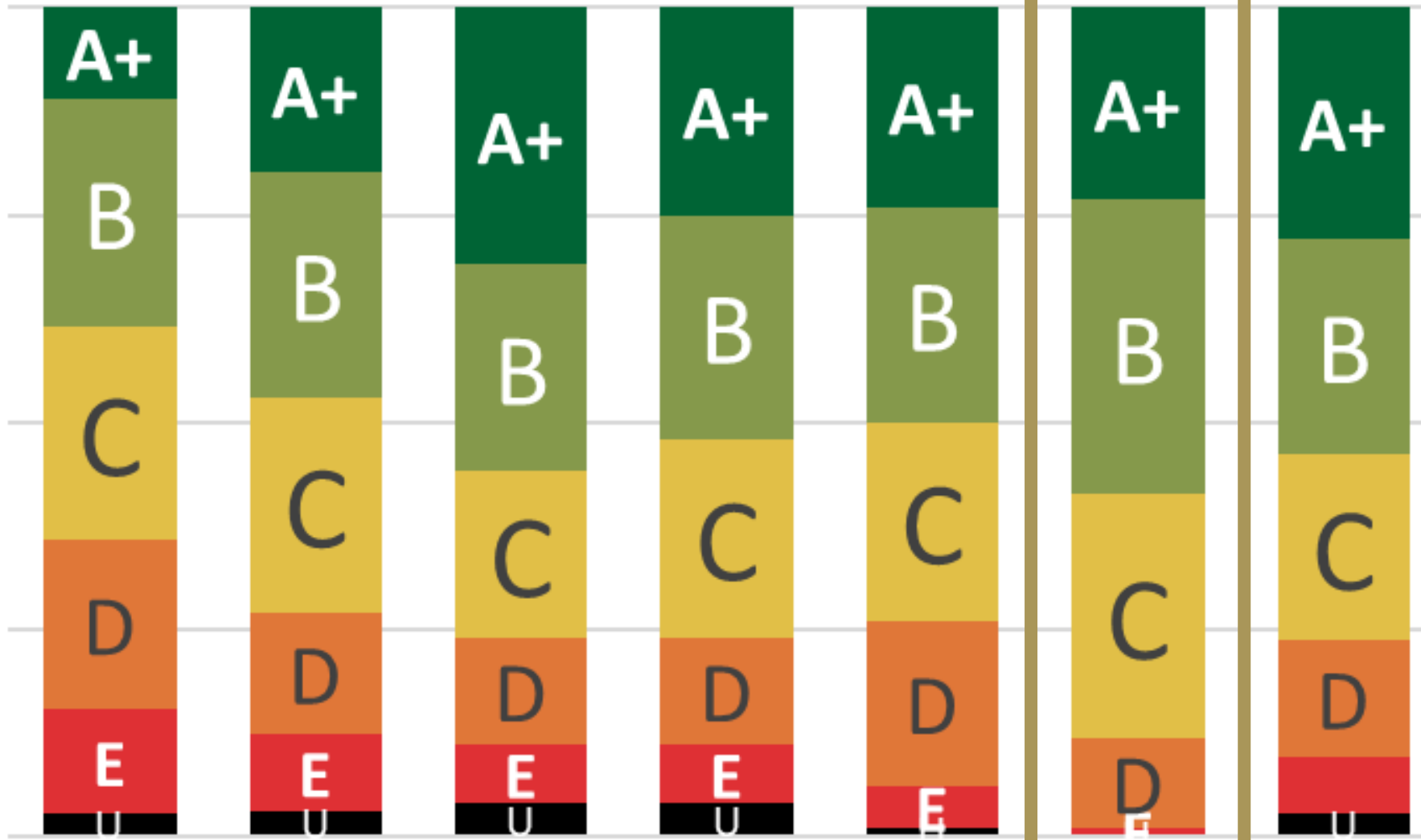
100%

75%

50%

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2018

2019

2022

2023

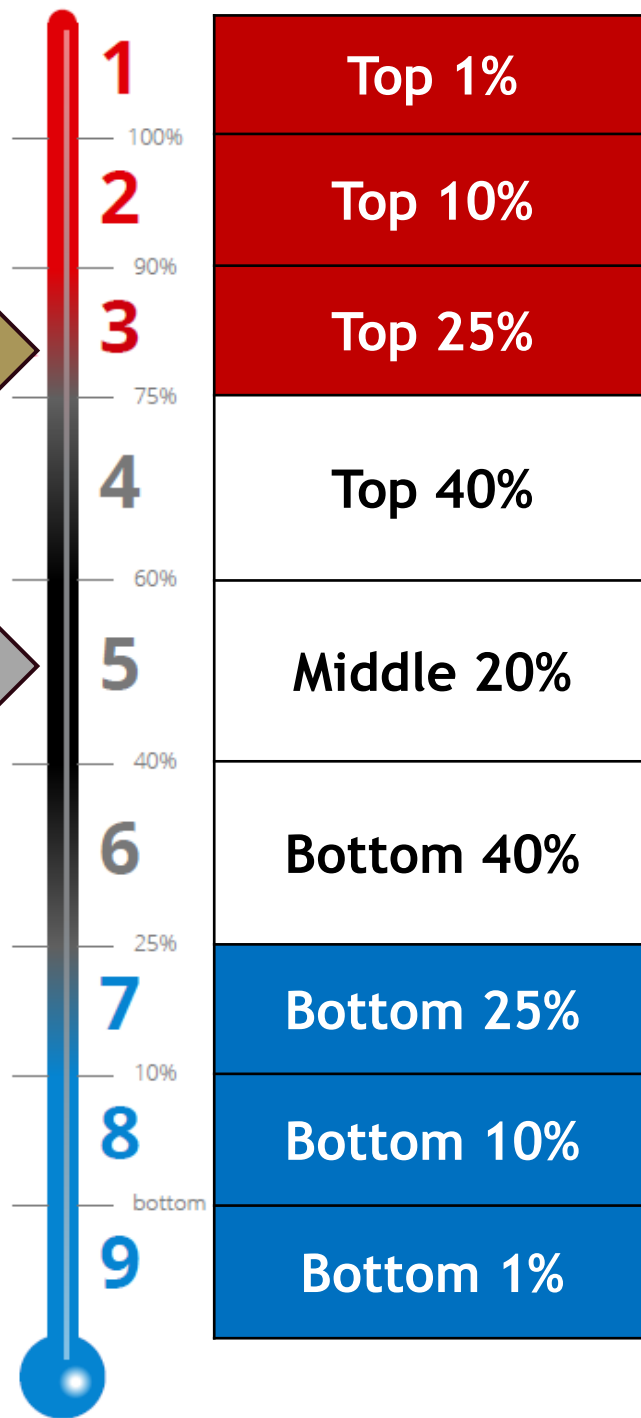
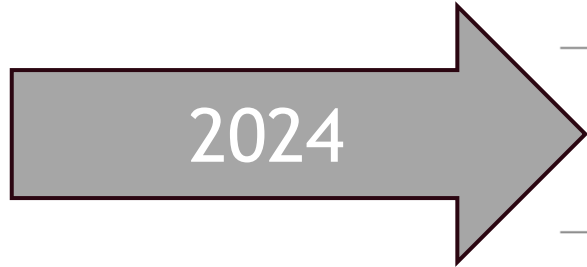
2024

2025

Nat

Avges

Year 13



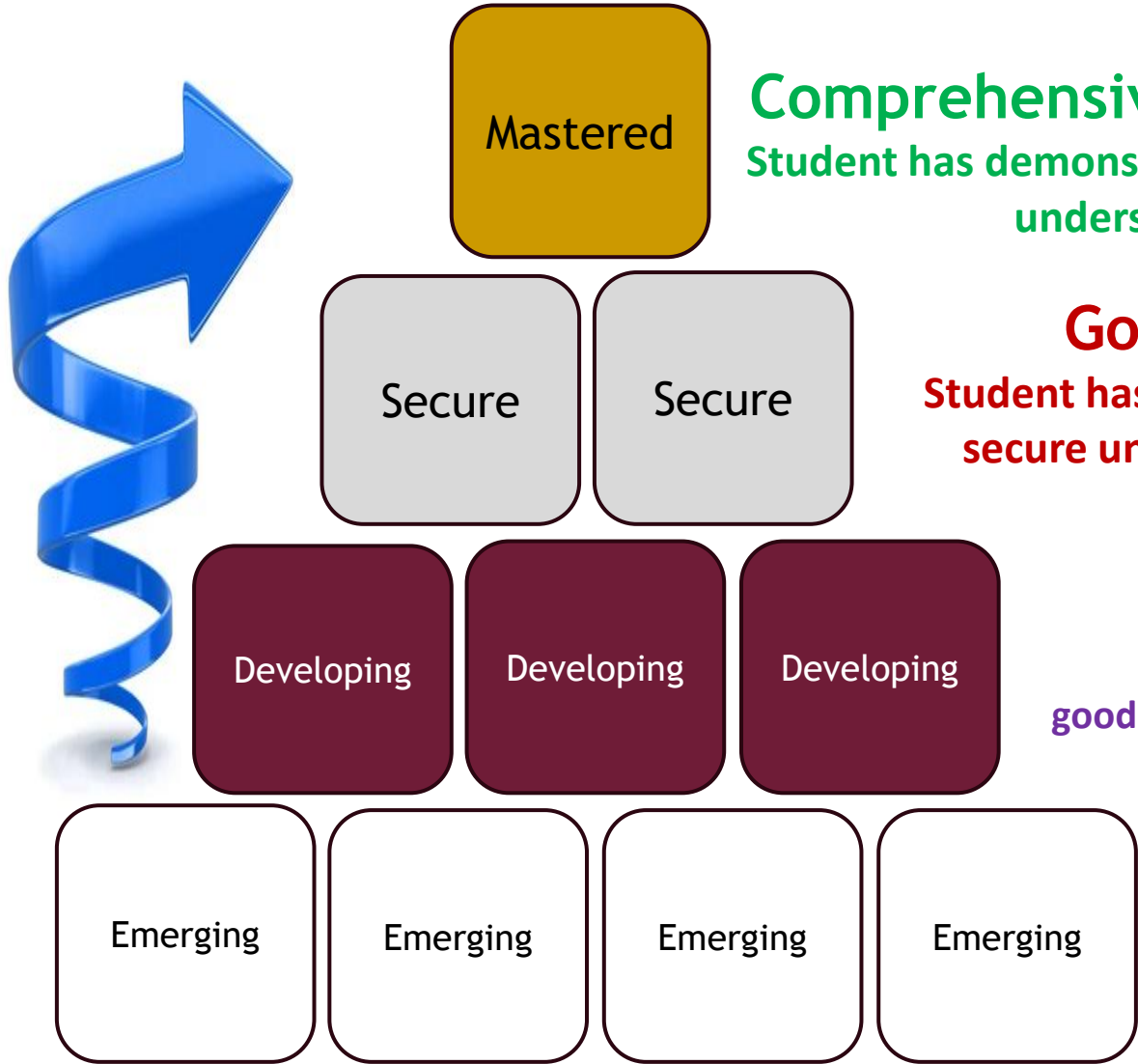
Aryan Karwal	A*A*A*	Imperial College London - Physics
Vismayan Pirabakaran	A*A*AA	UCL (University College London) - Physics
Heba Agal	A*A*A	King's College London, University of London - Neuroscience
Faris Magre	A*A*A	Imperial College London - Chemical Engineering
Safia Edoo	A*A*A	Gap Year - Will apply for UCAS in 2026
Elsie Wotton	A*A*B	University of Manchester - Medicine
Salma Ahmed	A* AA	King's College London, University of London - Pharmacy
Abdiqadir Hashi	A*A*A	Queen Mary University of London - Computer Science
Esrat Jahan	A*AA	City (City St George's, University of London) - Optometry
Ujeet Jaspal	A*AA	University of Nottingham - Economics
Madina Tokhee	A*A*AA	Gap Year - Will apply for Medicine UCAS in 2026
Palak Divan	AAAB	King's College London, University of London - General Engineering
Danija Petrons	A*ABB	Gap Year
Hadi Kachach	A*AB	Queen Mary University of London - Mechanical Engineering

Firdaus Shah	A*AA	UCL (University College London) - English
Billy Wade	A*AD*	King's College London, University of London - Nutritional Sciences
Maisha Rahman	AAA	UCL (University College London) - Chemistry
Aryan Adhikari	AAB	Queen Mary University of London - Mathematics with Finance & Accounting
Habib Akakhel	AAB	University of Nottingham - Criminology
Serena Sahota	AAA	King's College London, University of London - History
Joel Bedeau	AAA	Imperial College London - Materials Science and Engineering
Simran Kaur	AAB	University of Southampton - Accounting and Finance with Placement Year
Satwinder Sandhu	AAB	Queen Mary University of London - Actuarial Science with Professional Placement
Umer Liaquat	AAB	Queen Mary University of London - Computer Science and Artificial Intelligence with Industrial Experience
Baldeep Khalsa	AAA	Imperial College London - Medical Biosciences
Oneet Jaspal	AAB	University of Nottingham - Computer Science with Year in Industry
Ismael Ben Hamouda	ABB	Queen Mary University of London - Law

EDSM

The extent to which student has demonstrated:

- Understanding of key concept
- Retention of key information
- Application skills through an assessment



Comprehensive/Extensive evidence
Student has demonstrated a comprehensive and deep understanding of the unit

Good evidence
Student has demonstrated good and secure understanding of the unit

Some evidence
Student has demonstrated a good understanding of parts of the unit

Basic/Limited evidence
Student has demonstrated a limited understanding of the unit

End of Year Target

Attitude to learning on the scale of 1-4

Student	Sex	Target (EDSM)	CAG	KS3 residual - Year 7: Residual	Attitude to Learning - January	Attitude to Learning - June	Year 7 Baseline Assessment	Formative Assessment Tasks	FAT Aut 1 Stage A	Summer Y7 - Stage A EOY Assessment
	F	Emerging	Mastered	3	3 - Working in Line with Expectations	4 - Exemplary/Above Standard Expectations	-	-	-	97.06%
	M	Mastered	Mastered	0	4 - Exemplary/Above Standard Expectations	4 - Exemplary/Above Standard Expectations	87.21%	100%	100%	96.06%
	F	Secure	Secure	0	-	3 - Working in Line with Expectations	-	-	-	62.75%
	M	Mastered	Secure	-1	2 - Low Level Disruption/Lack of Work or Homework	3 - Working in Line with Expectations	48.84%	71.43%	71.43%	55.41%
	M	Mastered	Mastered	0	3 - Working in Line with Expectations	4 - Exemplary/Above Standard Expectations	87.21%	100%	100%	96.02%
	M	Emerging	Secure	2	3 - Working in Line with Expectations	3 - Working in Line with Expectations	68.6%	77.14%	77.14%	58.43%



Mastered

Secure

Developing

Emerging

Percentage total for each assessment

Current Assessment Grade

Reading the Report

Subject	Target (EDSM)	CAG	Attitude to Learning	Class Teacher
Art	Secure	Developing	5 - Exceeding	Miss E Balcomb
Computing	Secure	Secure	4 - Expected	Miss J Jacobs
English	Secure	Secure	3 - Coasting	Ms K Petsopoulou
Food Technology	Secure	Developing	4 - Expected	Miss L Luke, Mrs N Clark, Ms S Arjoon
French	Secure	Secure	4 - Expected	Ms V Castry
Geography	Secure	Mastered	4 - Expected	Miss R Abdullahi
History	Secure	Secure	4 - Expected	Ms L Swain
Mathematics	Secure	Mastered	5 - Exceeding	Mr A Abdillahi
Music	Secure	Developing	4 - Expected	Mr C Jones
PE	Secure	Secure	4 - Expected	Mr D Hillman
Religious Studies	Secure	Secure	4 - Expected	Ms A Ahmed
Science	Secure	Secure	4 - Expected	Mr L Macauley, Mr S Thanikasalam, Ms I Ponnuraj
Sport	n/a	Developing	4 - Expected	Miss F Dale
Tutor-PSHE	n/a	4	n/a	Miss A Sharma

Report Key

Target (EDSM)	Target to be achieved by the end of KS3
CAG	Current Attainment Grade
Attitude to Learning	5 Exceeding -Attitude to learning is exemplary, working above and beyond 4 Expected -Attitude to learning is positive, working in line with expectations 3 Coasting -Attitude to learning is not in line with potential 2 Disruptive -Attitude to learning causes low level disruption in lessons 1 Concern -Attitude to learning is a major concern

Session Attendance Information

Percentage attendance:	96.14%
Attendance:	299
Authorised absences:	9
Unauthorised absences:	2
Unknown marks:	1
Possible sessions:	311



Behaviour Information

Positive points:	450
Negative points:	-25

Subject	Target (EOY11)	CAG	Predicted Grade - June	Attitude to Learning	Group teacher(s)
Biology	9	9+	9+	4 - Expected	Miss A Rasoul, Mr L Macauley, Mr S Babber
Chemistry	9	9	9+	5 - Exceeding	Mr S Babber
Digital IT Btec	Level 2 Distinction*	Level 2 Distinction	Level 2 Distinction*	4 - Expected	Mr O Khan
English Language	8	8 -	9	4 - Expected	Miss H Miesegeas
English Literature	9	8 -	9 -	4 - Expected	Miss H Miesegeas
History	9	9	9	5 - Exceeding	Mr M Liddell
Mathematics	9	8+	9 -	5 - Exceeding	Miss M Bhachu, Mr T Steele-Dadzie
Physics	9	9	9	5 - Exceeding	Miss A Rasoul, Mr L Macauley
Spanish	8	9	8+	5 - Exceeding	Miss Z Khadra

Report Key

Target (EOY11) Target grade to be achieved by the End of Year 11

CAG Calculated Assessed Grade

Predicted Grade - June Grade the student is predicted to get at the End of Year 11.

Attitude to Learning

5 Exceeding -Attitude to learning is exemplary, working above and beyond
4 Expected -Attitude to learning is positive, working in line with expectations
3 Coasting -Attitude to learning is not in line with potential
2 Disruptive -Attitude to learning causes low level disruption in lessons
1 Concern -Attitude to learning is a major concern

Target Indicators

Well below target (1) Below target (3) On target (4) Above target (1)

Session Attendance Information

Percentage attendance: 98.02%

Attendance: 346

Authorised absences: 6

Unauthorised absences: 1

Possible sessions: 353

Behaviour Information

Positive points: 980

Negative points: -5

My Reflection Questions

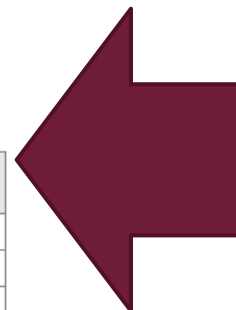
From the data above, which subjects do I need to improve in the most?

From the data above, what do I need to improve in these subjects.

How will I make these improvements to achieve my Targets (Be specific - see statement bank to help)

1.

2.



Student Reflection to be completed after report is issued

Subject	Target (EOY11)	CAG	Predicted Grade - June	Attitude to Learning	Group teacher(s)
Biology	9	9+	9+	4 - Expected	Miss A Rasoul, Mr L Macaulay, Mr S Babber
Chemistry	9	9	9+	5 - Exceeding	Mr S Babber
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English Literature	9	8-	9-	4 - Expected	Miss H Miesegaes
History	9	9	9	5 - Exceeding	Mr M Liddell
Mathematics	9	8+	9-	5 - Exceeding	Miss M Bhachu, Mr T Steele-Dadzie
Physics	9	9	9	5 - Exceeding	Miss A Rasoul, Mr L Macaulay
Spanish	8	9	8+	5 - Exceeding	Miss Z Khadra

Report Key	
Target (EOY11)	Target grade to be achieved by the End of Year 11
CAG	Calculated Assessed Grade
Predicted Grade - June	Grade the student is predicted to get at the End of Year 11.
Attitude to Learning	5 Exceeding - Attitude to learning is exemplary, working above and beyond 4 Expected - Attitude to learning is positive, working in line with expectations 3 Coasting - Attitude to learning is not in line with potential 2 Disruptive - Attitude to learning causes low level disruption in lessons 1 Concern - Attitude to learning is a major concern

Target Indicators	
<input type="checkbox"/> Well below target (1)	<input type="checkbox"/> below target (3) <input type="checkbox"/> On target (4) <input type="checkbox"/> Above target (5)
Session Attendance Information	Behaviour Information
Percentage attendance: 98.02%	Positive points: 980
Attendance: 346	Negative points: -5
Authorised absences: 5	
Unauthorised absences: 1	
Possible sessions: 353	

My Reflection Questions

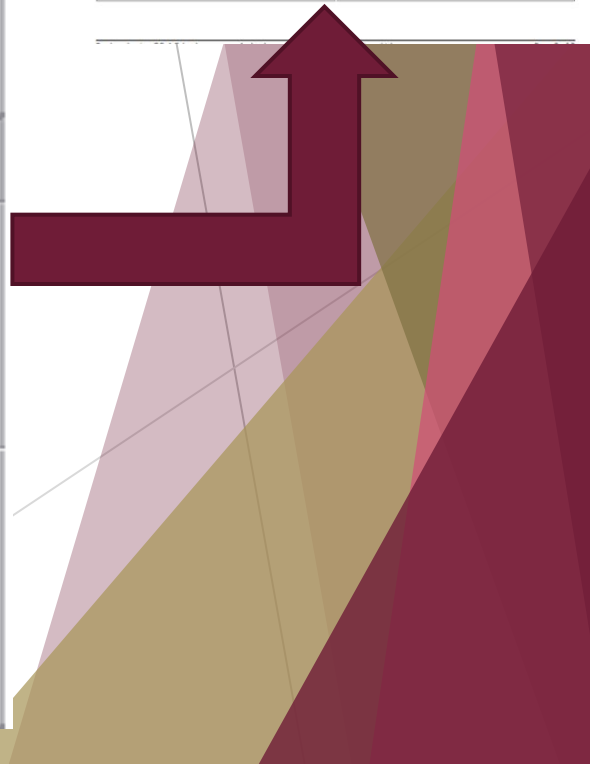
From the data above, which subjects do I need to improve in the most?

From the data above, what do I need to improve in these subjects. How will I make these improvements to achieve my Targets (Be specific - see statement bank to help).

1.

2.

My Reflection Questions	
From the data above, which subjects do I need to improve in the most?	
From the data above, what do I need to improve in these subjects.	How will I make these improvements to achieve my Targets (Be specific - see statement bank to help)
1.	
2.	



Student Reflection to be completed after report is issued



My Reflection Questions	
<p><u>From the data above, which subjects do I need to improve in the most?</u></p> <p>Art, Food technology, Music and Sport</p>	
From the data above, what do I need to improve in these subjects.	How will I make these improvements to achieve my Targets (Be specific - see statement bank to help)
<p>1. A Clear planned out revision timetable for all the subjects identified</p>	<p>Speak to teachers to provide Specification and past exam papers for me to complete and return them for checking.</p>
<p>2. Use teacher recommended on-line videos, knowledge organisers and PLCs to help me track my progress</p>	<p>Keep traffic lighting (LAGing) my topics on checklist and KO and ask teacher to go over anything red coded</p>



Options - Coming Soon! Year 9 is on 30th April 2026

- ▶ Options Evenings - Year 9s get to pick subjects from each Options Block with a broader wider breath of curriculum on offer
- ▶ Parents will be invited in for Options Evening, so they are clear on information regarding the options process
- ▶ Students will receive further guidance and support to complete and finalize the process

KS3 Science Information

Mrs Mohobuth - KS3 Science Lead

Learning Journey in Science (Year 8)

	Year 8 Topics	Assessments
Autumn	Organisms - Breathing	
	Matter - Elements	Autumn 1 End of Topic Assessment
	Forces - Contact forces	
	Organisms - Digestion	
	Matter - Periodic table	Autumn 2 MCQs
	Forces - Pressure	
Spring	Ecosystems - Respiration	
	Earth - Climate	Spring 1 End of Topic Assessment
	Waves - Sound	
	Ecosystems - Photosynthesis	Spring 2 MCQs
	Earth - Resources	
Summer	Waves - Light	END OF YEAR Assessment
	Genes - Variation	
	Energy - Work, heating and cooling	
	STEM - Project	Project Peer & Teacher Assessment

Learning Journey in Science (Year 9)

	Year 9 Topics	Assessments
Autumn	Reaction - Types of reaction	
	Reaction - Chemical change	Autumn 1 - MCQs
	Electromagnets - Magnetism	
	Genes - Variation and Evolution	
	Genes - Genetic and Evolution	Autumn 2 - End of Term Assessment
Spring	Earth: The Earth's atmosphere	
	Energy: Energy resources	Spring 1 - MCQs
	Ecosystems: Photosynthesis	Spring 2 - End of Term Assessment
Summer	Ecosystems: Respiration	
	Energy - Particles	Summer 1 - MCQs
	Matter: Atomic structure	
	Matter: The periodic table	Summer 2 End of Year Assessment

Personal learning checklist

	Year 8 Topics	Assessments
Autumn	Organisms - Breathing	
	Matter - Elements	Autumn 1 End of Topic Assessment
	Forces - Contact forces	
	Organisms - Digestion	
	Matter - Periodic table	Autumn 2 MCQs
	Forces - Pressure	
Spring	Ecosystems - Respiration	
	Earth - Climate	Spring 1 End of Topic Assessment
	Waves - Sound	
	Ecosystems - Photosynthesis	Spring 2 MCQs
	Earth - Resources	
Summer	Waves - Light	END OF YEAR Assessment
	Genes - Variation	
	Energy - Work, heating and cooling	
	STEM - Project	Project Peer & Teacher Assessment

KS3 Science (Year 8) Personal Learning Checklist

Topic 8: ORGANISMS – Breathing (7 lessons)



Chapter overview

In this topic, you will explore the gas exchange system including the processes of ventilation, gas exchange and the differences in composition of inhaled and exhaled air. Another aspect that will be explored is the correlations between data sets and the need for evidence to secure a causal mechanism. This includes the risks of diseases from smoking and the effect of alcohol and drugs. Recreational drugs can have a negative effect on people's lifestyles. You will explore the dangerous effect of chemicals in tobacco smoke on the development of a foetus. There will be opportunity for you to work collaboratively to investigate the cause of a drink-driving accident, and compare reaction times of people who have drunk varying amounts of alcohol.

Look at each of the knowledge statements If you are confident that you know what it means, tick box 1. If you're not sure what it means, tick the box 2. If you definitely don't know what it means, tick box 3.	Confidence		
	1	2	3
Can you...?			
Explain how the adaptations of the parts of the gas exchange system help them perform their function.	✓		
Explain the similarities and differences between the bell jar and the breathing system.		✓	
Explain how recreational drugs can have a negative effect on people's lifestyles.	✓		
Explain the importance of providing information about drinking to the general public, not just pregnant women	✓		
Explain which chemicals in tobacco smoke affect the development of a foetus (baby).			✓

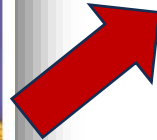
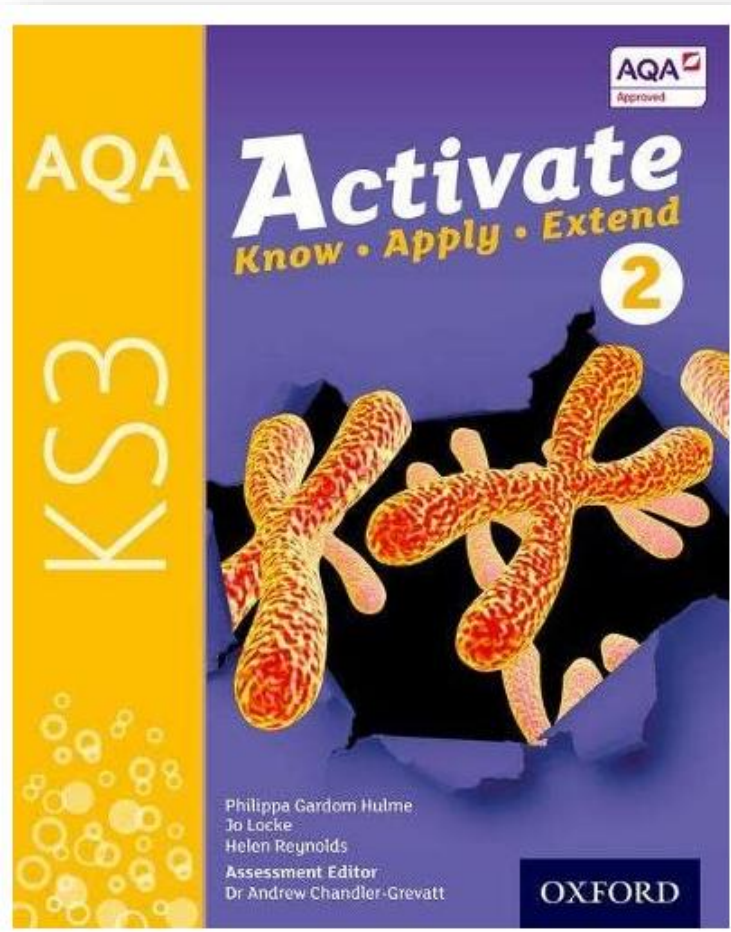
Practicals

Practical 8:3:1: To analyse data obtained on the composition of inhaled and exhaled air.	✓		
Practical 8:3:2: To design a system for measuring the volume of their lungs and find a value for their lung volume.	✓		
Practical 8:3:3: To carry out tests on some unknown substances and determine if the substances are samples of an illegal recreational drug.	✓		
Practical 8:3:4: To investigate the cause of a drink-driving accident and compare reaction times of people who have drunk varying amounts of alcohol.	✓		

Resources in Science

Books:

Website: Kerboodle



8.3.1 Gas exchange

Learning objectives

After this section you will be able to:

- describe the function of the gas exchange system
- explain how parts of the gas exchange system are adapted to their function
- explain why your breathing rate and volume can change.

Link

You can learn more about why you breathe in 9.3.1 Aerobic respiration.

Key Words

gas exchange, lungs, ribs, respiratory system, trachea, bronchus, bronchiole, alveolus, breathing, inhale, respiration, exhale, condense

Fantastic Fact!

Your lungs are not the same size. The left lung is normally smaller than the right lung, which leaves space for your heart.

Why do we breathe in and out?

Breathing is the movement of air in and out of the lungs. When we breathe in we **inhale** to take in oxygen. The oxygen is used in **respiration** to transfer energy. Respiration produces carbon dioxide, which needs to be removed from the body. When we breathe out we **exhale** to remove carbon dioxide.

The amount of oxygen required by your body cells determines how fast you need to breathe. You need more oxygen when you exercise. The harder you exercise, the faster your breathing rate and the greater the volume (depth) of breathing. This allows you to take in the oxygen you need to respire more, which transfers more energy to your muscle cells.

The pie charts below show how much of the different gases are present in inhaled and exhaled air. This is called the composition of the air.

Gas	Percentage
oxygen O ₂	20.96%
carbon dioxide CO ₂	0.04%
nitrogen N ₂	78%
other gases	1%

Gas	Percentage
oxygen O ₂	16%
carbon dioxide CO ₂	4%
nitrogen N ₂	78%
other gases	2%

▲ These pie charts show the amount of each gas in inhaled and exhaled air.

C State which gas, present in air, is not used by the body.

▲ If you breathe onto a cold mirror, it steams up. This is because water vapour in the air you breathe out **condenses** on the cold surface.

Which chart?

The composition of inhaled and exhaled gases is shown in a pie chart. Why is this the best chart to use? Would another type of graph be better?

Link

You can find out more about condensing in Book 1, 5.1.5 More changes of state.

Summary Questions

1 Copy and complete the following table to show the differences between inhaled and exhaled air. Use the words **less**, **more**, **same**. Words can be used once, more than once, or not at all.

	Inhaled	Exhaled
oxygen		
carbon dioxide		
nitrogen		

(3 marks)

2 Draw a diagram of the gas exchange system and label how each structure is adapted to its function. (3 marks)

3 State and explain how a cyclist's breathing rate and volume are different between riding on the flat, compared to a hill climb. (3 marks)

4 Describe, step by step, the journey that carbon dioxide takes from the alveolus out of the body. (6 marks)

(6 marks)

● Topic 8.3 Breathing

8.3.1 Gas exchange

Learning objectives

After this section you will be able to:

- describe the function of the gas exchange system
- explain how parts of the gas exchange system are adapted to their function
- explain why your breathing rate and volume can change.

Link

You can learn more about why you breathe in 9.3.1 Aerobic respiration.

Key Words

gas exchange, lungs, ribs, respiratory system, trachea, bronchus, bronchiole, alveolus, breathing, inhale, respiration, exhale, condense

Fantastic Fact!

Your lungs are not the same size. The left lung is normally smaller than the right lung, which leaves space for your heart.

▲ You can see the lungs on a chest X-ray.

▲ Name the structure that protects your lungs.

The diagram below shows the main components of your **respiratory system** (gas exchange system). Follow the arrows with your finger to see how air travels through your mouth and nose and ends up in the blood around your lungs. The blood then takes the oxygen to all cells in your body.

Air enters your body through your mouth and nose.

↓

Air moves down the **trachea** (windpipe) – a large tube.

↓

Air moves down a **bronchus** – a smaller tube.

↓

Air moves through a **bronchiole** – a tiny tube.

↓

Air moves into an **alveolus** – an air sac.

↓

Oxygen then diffuses into the blood.

There are millions of alveoli (plural of alveolus) in your lungs. They create a large surface area. They also have thin walls that are only one cell thick. This means that gas exchange can occur quickly and easily.


B State the scientific name for an air sac.

Reading booklets to boost Literacy in Science

Year 8 literacy booklet

Barnhill
COMMUNITY HIGH SCHOOL

Science Department
Home Learning
Autumn
Independent Reading Booklet
KS3 – Year 8




Name:

Science Class:

Teacher:

1

Nicotine from smoke enters body through the skin
Breathing isn't the only way into the body for harmful chemicals in tobacco smoke




Tobacco smoke can linger long after smokers have exhaled their last puff. A new study finds that chemicals in that smoke, including nicotine, can enter the body of all through their s

Breathing isn't the only way that chemicals in cigarette smoke can enter the body. A nicotine, a toxic chemical, can pass through skin and into the blood from the air or from

Scientists refer to the airborne particles exhaled by a smoker as "secondhand" smoke. smoke has already exposed the smoker and is now available to pollute the room and particles can linger for hours. "The way we are exposed to secondhand smoking is not thought," says Gabriel Bekk. A civil engineer at the Technical University of Denmark in new study.

The new findings are especially important for kids and teens, Bekk's group says. After affect their brains. So, "if you're in a room where smoking or vaping is occurring, you'r smoke through your skin as well as your lungs," says Charles Weschler. He's a chemist, University in Piscataway, N.J. A co-author on the new study, Weschler has spent many chemicals that pollute indoor air and how they get there.



It's no surprise that tobacco's nicotine the skin. Farm workers can get sick if rubs onto them from tobacco leaves. patches have been designed to deliver dermally — through the skin. There, t people get their fix of this addictive st attempt to quit smoking. But keeping skin exposures to nicotine This chemical is toxic. It has been use also can sicken — even kill — people to too much (such as if liquid nicotine skin).

Scientists in the study used a device to mechanically "smoke" cigarettes.

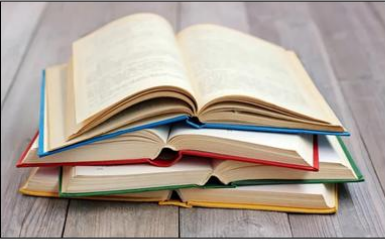
Against this backdrop, Weschler, Bekk colleagues in Denmark and Germany whether nicotine from secondhand smoke could enter skin from a room's air. And it c show. The study was published August 24 in *Indoor Air*.

1

Year 9 literacy booklet

Barnhill
COMMUNITY HIGH SCHOOL

Science Department
Home Learning
Autumn
Independent Reading Booklet
KS3 – Year 9




Name:

Science Class:

Teacher:

1

Burning to learn
New research on fire, its causes and its behavior is helping scientists lessen the risks that burning poses



Firefighters control fires that threaten people. But allowing some blazes to burn on will help some ecosystems.

In central California's Yosemite National Park, it doesn't take much to set the forest on fire. A discarded cigarette. A match. Or, as is often the case, a bolt of lightning. On July 31, 2011, thunder boomed as a severe storm pelted the park. The lightning struck trees, igniting several fires. Firefighters with the National Park Service quickly extinguished three fires. But they let a fourth burn on.

They thought it might actually do more good than harm.

That fire began burning through a rugged section of the mixed conifer woods next to the Badger Pass Ski Area. It scorched the bark on big trees. Smaller trees died. A thick layer of fallen, dead and dry plant debris, called litter, further fueled the flames. Within 12 days, this Avalanche Fire — named for nearby Avalanche Creek — had spread through a sprawling swath of forest larger than 1,000 football fields.

Letting the Avalanche Fire burn was no accident, explains Jun Kinoshita. He's an archaeologist and a firefighter with the National Park Service (NPS). He says that over time, dead vegetation — including leaves, branches and needles — had piled up on the forest floor. That litter serves as extra fuel and can keep a fire burning.

The Avalanche Fire consumed much of the litter that had accumulated since the forest had last burned. That reduced the risk that the next fire would be even larger or more severe. The burned area left behind by the fire also created a barrier, called a fuel break. That break should prevent future fires from spreading to the nearby ski resort. When the next blaze comes, scars from the Avalanche Fire will "act as a barrier to the new, spreading fire."

"Instead of fighting the fire directly, we looked at it very carefully," Kinoshita explains. "Overall, we saw a large benefit to that ecosystem by allowing it to burn."

2

Homework in Science

Teams Homework



See All Assignments

The screenshot shows the Microsoft Teams interface. On the left is a navigation pane with icons for Activity, Chat, Teams, Assignments, Calendar, Files, and Help. The main area displays a list of assignments under the 'Assigned' section:

- Cell structures** (Science) • Due tomorrow at 11:59 PM
- Supreme Court discussion topic** (Civics) • Due tomorrow at 11:59 PM
- Reading assignment** (Humanities Period 3) • Due October 2, 2020 11:59 PM
- Art project** (Art) • Due October 5, 2020 11:59 PM
- Spanish book report** (Spanish) • Due October 7, 2020 11:59 PM
- Linear Equations** (Algebra 1) • Due October 8, 2020 11:59 PM

At the bottom of the list is a 'Returned' section with a 'Create' button.

Task Sheet 1 (Bronze Challenge):
Elementary Questions

Here are some names of some elements and their symbols.

Hydrogen	He	Ca	O	Calcium
Chlorine	Na	Helium	N	Oxygen
Argon	C	Carbon	F	Fluorine
Potassium	Mg	Nitrogen	Fe	Sodium
Iron	H	Ar	K	Magnesium
			Cl	

1. Match the names to their correct symbols. You can either draw lines between them or colour code them.

2. After the name of each element write in whether it is a solid, a liquid or a gas. Do not write the full words just (s) for solid, (l) for liquid or (g) for gas.

3. Name all the elements above that are **metals**.

4. Name all the **non-metals** above that are **solids**.

5. Elements are sometimes named after the people who discovered them. Imagine you have just found a new element.

a) What would you call it? _____

b) What would its symbol be? _____

Task Sheet 2 (Bronze Challenge):
Elements and Compounds

1. Fill in the blanks by choosing the correct word or phrase from the brackets.

a) Carbon, oxygen, iron and gold are all _____ (metals/elements/compounds). (elements/compounds).

b) Things which contain only one type of atom are called _____.

c) Compounds always contain _____ (one/more than one) type of atom.

d) The chemical name for common salt is sodium chloride. There are _____ (one/two/three) parts to the chemical name. This means it is _____ (an element/a compound).

e) Water has the formula H_2O . There are two elements in water. Hydrogen is one and _____ (carbon/oxygen/nitrogen) is the other. Water is _____ (an element/a compound). The full chemical name for water is hydrogen _____ (chloride/oxide/sulphate). The formula tells us that water contains _____ (more/less) hydrogen than oxygen.

2. Draw lines to link up the elements with the correct chemical symbols. The first one has been done for you.

Hydrogen	Br
Oxygen	Mg
Helium	Zn
Magnesium	S
Carbon	H
Nitrogen	O
Bromine	Kr
Zinc	He
Sulphur	C
Krypton	N

Extracurricular activities in Science

Crest Award (Independent research & Practical)



Extracurricular activities in Science

Y7 & Y8

Thursdays 12:20 pm – 12.50 pm

Science CLUB

Room G89

03rd October

Frog dissection

10th October

Goopy slimes (Halloween special) 

17th October

Fizzy bath bombs

24th October

Titration Rainbow

End of Autumn 1 (Half term)

14th November

Let's make ice cream in the LAB!

21st November

Rocket blast challenge



Trips in Science

Thames Water –

Students explored the water purification process:



Whipsnade Zoo –

Students attended an educational workshop on 'Ecosystem':



KS3 Maths Information

Mr Chentouf - KS3 Maths Lead

Year 8 maths curriculum

TERM	Unit	Assessments
AUTUMN	Algebraic Manipulation Solving Equations Sequences Angles and Polygons	Formative Assessment
		Autumn Summative Assessment
SPRING	Averages and Spread Averages from Tables Powers and Roots Recurring Decimals Percentages and Percentage Change	Formative Assessment
		Spring Summative Assessment
SUMMER	Proportion and Proportionality Algebraic Manipulation and Proof Solving Equations (including quadratics) Simultaneous Equations	Formative Assessment
		End of Year Summative Assessment


Year 9 maths curriculum

TERM	YEAR 9 – FOUNDATION	YEAR 9 - HIGHER	Assessments
AUTUMN	<ul style="list-style-type: none"> ● Place Value ● Calculations, Rounding and Estimation ● Rules of Indices and Roots ● Factors, Multiples and Primes ● Averages and Range, Frequency Tables and Two Way Tables ● Stem and leaf diagrams and comparing distributions ● Pie Charts, Bar Charts, Histograms and Frequency Polygons ● Scatter Graphs 	<ul style="list-style-type: none"> ● Calculations, Rounding and Estimation ● Rules of Indices, Reciprocals and Standard Form ● Factors, Multiples and Primes ● Averages and Range, Frequency Tables and Two Way Tables ● Stem and leaf diagrams and comparing distributions ● Pie Charts, Bar Charts, Histograms and Frequency Polygons ● Scatter Graphs ● Expressions (Substitution, Expanding Brackets and Factorising) ● Surds 	Formative Assessment Autumn Summative Assessment
SPRING	<ul style="list-style-type: none"> ● Expressions (Substitution, Expanding Brackets and Factorising) ● Solving Equations and Changing the subject ● Linear and Non Linear Sequences ● Inequalities ● Fractions, Decimals and Percentages 	<ul style="list-style-type: none"> ● Solving Equations and Changing the subject ● Linear and Non- Linear Sequences ● Fractions, Decimals and Percentages ● Percentage Change and Multipliers ● Ratio and Proportion 	Formative Assessment Spring Summative Assessment
SUMMER	<ul style="list-style-type: none"> ● Properties of shapes and Angle facts ● Angles in Polygons and Angles in Parallel Lines ● Fractions, Indices and Reciprocals ● Standard Form ● Perimeter and Area ● Volume and Surface Area of prisms 	<ul style="list-style-type: none"> ● Angles in Polygons and Angles in Parallel Lines ● Pythagoras and Trigonometry ● Perimeter, Area and Circles ● Volume and Surface area of prisms, spheres, cones and pyramids ● Density and Pressure 	Formative Assessment End of Year Summative Assessment



Sparx Maths

Homework

- Students receive homework questions tailored to their ability. This means they should be able to answer 100% of the questions correctly whilst also finding the homework challenging.
 - Each question has an explanation video, so students should watch the video if they are struggling with a question.
 - Students should complete compulsory homework every week. For further revision or challenge, students should use 'Independent Learning'.
 - Parents receive emails updating them on their child's homework progress.
- 

Extra online revision resources

- Sparx maths – independent learning
- Corbett maths – worksheet questions on every topic, video explanations, practice papers, numeracy 5 a day
- Mathsgenie – exam questions and solutions on every topic, video explanations and Edexcel past papers

KS3 English Information

Mr Spoor - KS3 English Lead

KS3 ENGLISH: *Our Learning Journey*

THE BIG QUESTION:

How characters are used to present human struggles and wider ideas within the world of a narrative?

UNIT CONCEPT:

Characters within their contexts



Year 8: Our learning Journey 2024-2025

Autumn Term:

Autumn 1: *Of Mice and Men* (PROSE):
Benefits and limitations of omniscient narration/purpose; effect of cyclical structures; individual struggles and endeavours in a micro society.

Autumn 2: *Shadows of Tomorrow: Navigating Dystopian Realities* (FICTION WRITING)
Narrative voice/identity commentary on societal issues.
Developing complex character motivations, societal structures, and more sophisticated use of literary devices.

Spring Term:

Spring 1: *Relationship Poetry* (POETRY):
Themes/structures of sonnets are a foundation for diverse poets to express thoughts and emotions about power/identity within their respective relationships.

Spring 2: *DNA* (DRAMA):
The significance of stagecraft in drama. Dynamic of relationships within society (microcosm) as well as power.

Summer Term:

Summer 1: *Social Non-Fiction* (NON-FICTION READING):
Comparison of famous perspectives over time, exploring societal issues and changes as well as desired effect of the author.

Summer 2: *A Change of Perspective* (NON-FICTION WRITING AND ORACY):
Exploration and replicating different writing perspectives through societal contexts.

Power

Society

Relationships

Identity

THE BIG QUESTION:

Literature as a commentary or criticism of social, political and historical issues.

UNIT CONCEPT:

Power and Politics



Year 9: Our learning Journey 2024-2025

Autumn Term:

Autumn 1: *The Strange Case of Dr. Jekyll & Mr. Hyde* (PROSE):
Symbolism; the unreliable narrator; conventions of the Gothic; zoomorphism; Victorian gentleman expectations; warning of science vs religion; morality vs greed for power; duality of human nature.

Autumn 2: *Haunted Pages: Gothic Explorations* (FICTION WRITING):
Students now refine and explore their narrative voice and the power the narrator holds over not only themselves and characters but also society. Students should apply style and descriptions learned from the seminal Gothic novella; focus on setting and character.

Spring Term:

Spring 1: *Culture & Identity Poetry* (POETRY):
Comparing poems from diverse poets exploring different aspects of their culture while discovering their true identity.

Spring 2: *The Tempest* (DRAMA):
Significance of a powerful soliloquy; imagery and personification; iambic pentameter and how it is subverted; texts as a reflection of the context of its conception to shape society.

Summer Term:

Summer 1: *The Power of Rhetoric* (NON-FICTION READING):
How speakers use the art of rhetoric to galvanise and mobilise groups to achieve social change.

Summer 2: *The Art of Persuasion* (NON-FICTION WRITING AND ORACY):
Exploration of the power of persuasion to make a change in society; shifting minds to make an impactful change for the betterment of society.

Power

Society

Relationships

Identity

Assessments in KS3 English

- **Every** unit is assessed **ONCE** per half term once the teaching and learning is completed:
- **Every** student is provided with **bespoke feedback, live-marking** on a daily/routinely basis, and **whole class feedback**.



Whole Class Feedback Example in KS3

Assessment Checkpoint 1 Autumn Term: <i>Of Mice and Men</i> – Importance of setting		
WWW: Strengths & Highlights	Avoid...	Instead...
1. Some expressed ideas and with the writer's purpose. 2. Some well chosen quotations with lots to say about each one, but not always explained in detail! 3. Better responses when you use: <i>this suggests or shows / this creates a sense of/imagery of...</i>	Begin with the embedded quotation without a topic sentence to introduce it.	Lead with an idea and introduce the technique later
	Don't introduce quotes with basic or sloppy embedding e.g. "a quote to show this is..." "when the writer says..." / "it says..." <i>This tells me...</i>	Embed your evidence so it flows with your writing and sounds academic. e.g. A perfect example of this can be seen when <i>the writer describes the land as...</i>
	Moving on to the next idea or source too quickly	Stay with an idea, or thread of analysis for as long as possible.
EBI: Targets for next time – highlight those appropriate to you		
1. Stick with the wider idea of the text/extract – When you introduce an idea, stick with it for as long as you can. Try to explain it in more than one sentence and link the idea to the focus of the question; e.g. <i>Steinbeck uses the setting in the opening of the story to represent ideas of hope and purity.</i> 2. In depth language analysis – When you introduce a quotation for analysis you MUST say a lot about it. When zooming in on one word try this: 1. Define the word. 2. Explore/explain some of the connotations (associated meanings) of the word 3. Link these ideas back to the context of the extract.		
Spelling, punctuation and grammar		
- Capital letters for proper nouns: names of people and places especially: <i>Steinbeck</i> - Correct of spelling errors circled and labelled with an Sp . - When you see a W it means to use a different word – more ambitious!		
Feedback and action steps: What do you need to do now to help you further?		
1. Re-read your response and decide which EBIs you will be working on. 2. Use green pen to identify areas, or sections you will redraft 3. Start redrafting in your exercise books. 4. If you're stuck, look at my feedback comments or questions in your paper.		

Marking Codes in KS3

SPaG Codes	Reading Codes linked to RAFs/AOs
<p>7. CL: Use capital letters at the start of sentences, for proper nouns and for the letter 'I', if it is on its own.</p> <p>8. Sp: You have spelled this word incorrectly. Check the spelling and correct it by writing it three times in the margin of your work.</p> <p>9. P: You are either missing punctuation, or you have used punctuation incorrectly, here. Please correct it.</p> <p>10. SS: Your sentence structure is incorrect. Check that your main clause has a subject and a verb. (Don't forget that every sentence must have a main clause!) Check also that you have used a comma to separate the subordinate clause from the main clause.</p> <p>11. W: Your word choice here is irrelevant, incorrect or unsophisticated. Please correct this with a more ambitious word instead.</p> <p>12. X: This is incorrect, irrelevant or unnecessary. Read it again carefully - either improve it or remove it.</p>	<p>6. EV: Use the BEST evidence to support your argument <u>OR</u> reconsider the evidence you have chosen.</p> <p>7. IN: Don't state the obvious or repeat the quote you embedded – make an insightful inference. What is being implied in the "evidence" you chose?</p> <p>8. M: Accurately identify the method used in your evidence (language or structural) <u>OR</u> rethink your choice. Is this relevant/the BEST one you could have chosen? Does it allow you to develop analysis?</p> <p>9. EFF: You must clearly explain how writer's choices create effect (e.g. how the connotations of language or understanding the purpose of a particular method help you to interpret the character, setting, mood/atmosphere or key events).</p> <p>10. Z: Zoom in': write about the connotations/what readers can associate with any key words within your evidence. You cannot zoom in on a long phrase!</p>

BEDROCK HOMEWORK

- **Across KS3 Homework** is set **weekly** and is closely **monitored** by classrooms teachers with **sanctions** and **praises**.
- Last year, we launched a programme called **Bedrock** which allows our students to **develop independence** and **accountability** of their learning, also **improves their literacy and comprehension skills** depending on which level of **difficulty** they choose.
- **All students** have been provided with login details to access **Bedrock** from home or any other electronic device.



ENRICHMENT
OPPORTUNITIES
IN ENGLISH

Debate Club



Every Wednesday

15:00-16:00

**Meet Mr.
Alderson in F05**

- Develop critical oracy and public speaking skills
- Keep up to date with current affairs
- Learn self regulation and the ability to keep calm when views are challenged
- Opened to ALL year groups



Year 9 Pastoral Information

Miss Raheman - Head of Year 9

Year 9



► Miss Raheman- Head of Year

Year 9		
SLT Key Contact: Miss Bertin		
HOY 9: Ms Raheman (CRA); PSM: Miss Aldous (JAL)		
Tutor Group	Tutor	Room
9A	Ms El - Fassi (LEL)	F12
9B	Mr Wasu (AW2)	S26
9C	Mr Kausar (OKA)	S15
9D	Ms Al- Esia (MAE)	F25
9E	Ms Jackson – Howard (TJA)	G61
9F	Ms Martin-Jimenez (BM2)	F71
9G	Mr Spoor (CSP)	F06
9H	Ms Shelvey (KSH)	F15
9I	Ms Gupta (RGU)	F97
9J	Ms Sehdev (ASE)	F59

Organisation - 2025- 2026

Most Expectations are similar for Y8s and Year 9s

- ▶ As year 8's move into Year 9 their organisation skills will need even more attention.
- ▶ All students should check their timetable and pack their school bag the night before.
- ▶ Use their planners to write down homework, with the date due and marking off once they have completed it.
- ▶ Organise all their school books and belongings at home in one area so they can easily pick their books each day.
- ▶ Have their login's' ready and up-to-date to access any homework online as Maths, English and Science to name a few will all be online. If there is an issue approach IT straight away at school.



Barnhill
COMMUNITY HIGH SCHOOL

Respect | Wisdom | Aspiration | Community

Attendance Matters !!

...being in school, on time, every day,
ready to learn.



Poor punctuality - less chance of success

Very poor punctuality - serious impact on education and reduced life chances.

DID YOU KNOW? If you are 15 minutes late each day you will have missed 2 full weeks of school in one year?

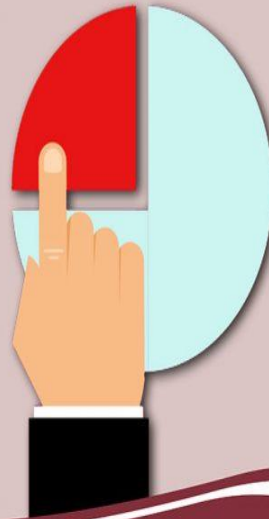
ABSENCE

How much time can you lose?

IN ONE SCHOOL YEAR

95% = **9.5**
attendance days off

= Quarter of a school year missed during Year 7 to 11



LATENESS

How much time can you lose?

IN ONE SCHOOL YEAR

5 minutes late each day
= **3** days off



Attendance Ladder

How close is your child to reaching the top?

More time in school = MORE TIME TO LEARN!

Equates to 4 school days off each year

100%
Perfection

On Track

Equates to 7 school days off each year

98%
Impressive

Equates to 9 school days off each year

96%
Good

At Risk

Equates to 11 school days off each year

95%
Nearly There

Equates to 18 school days off each year

94%
Needs to Improve

Equates to 2 months off each year

90%
Danger Zone

80%
Danger Zone

Off Track

For every day your child is absent from school, **over 6 hours** of instructional time is lost.

Attendance and punctuality, 2025-2026

- ▶ Attendance is extremely important and all students should aim to get at least 95%.
- ▶ Attendance is closely linked with achievement and this is an easy win for all students to achieve.
- ▶ Punctuality is also important. If you are late to school on any given day, if it is before 8.50am you will have a detention during your lunch break on the same day. If it is after 8.50am then you will have 1 hour detention the following day after school.
- ▶ All lessons start with a register, therefore if you are late to lessons, teachers will also mark you as late.

Classroom Expectations

- ▶ Being equip for learning- Bags, pencil case, books, Suitable School Bag, School Planner, Exercise books, Pencil case, Blue or Black Pens, Green Pen, Pencil, Ruler, Rubber, Pencil Sharpener
- ▶ Scientific Calculator
- ▶ Organisation in lessons.

Have you used **THUDS** before starting your work?

T = Title

H = Handwriting

U = Underline (question & date)

D = Date

S = Stationery

START OF THE LESSON



Meet, greet and seat students straight away as they arrive



Have a 'Do Now' on the board so each lesson starts with pace



Take register in the first 15 minutes of the lesson



Check students uniform shirts, ties, blazers, over garments

END OF THE LESSON



4 minutes before the end of the lesson students should pack



Students then stand behind their chairs in silence



Dismiss students row by row or table by table



Check that the students leave in good order and in proper uniform

Dressing for Success, 2025-26

Clothing to, from and in school:

- Blazers and ties must be worn in the school building at all times, except blazers during very warm weather
- Black jumpers will not be permitted to be worn at all
- Trousers must be tailored, not tight-fitting of any kind
- Skirts must be knee length and not tight-fitting. Only pleated knee length skirts will be permitted
- Hoodies are not permitted at all- this includes walking to and from school. You should purchase a plain unbranded coat in preparation for the winter, or just wear your blazers



**NO
HOODIES**

Year 8 Pastoral Information

Mr Millington-King - Head of Year 8

Year 8



► Head of Year- Mr Millington-King

Year 8		
SLT Key Contact: Miss Bertin		
HOY 8: Mr Millington-King (MMI) PSM: Mrs D Gill (DGI)		
Tutor Group	Tutor	Room
8A	Mr Alderson (CAD)	F05
8B	Mr Clyne (CCL)	F109
8C	Ms Qawasmeh (ZQA)	F85
8D	Mr Mudavarth (MMU)	G89
8E	Ms Sunthareswaran (NSU)	F55
8F	Ms Rodrigues (MRO)	S07
8G	Ms Abdi (FAB)	F23
8H	Ms Kargar (EKA) - Mon – Thurs	F67
	Ms Calaca (LCL) - Fri	
8I	Ms Patel (NPA)	F60

Dressing for Success

Footwear:

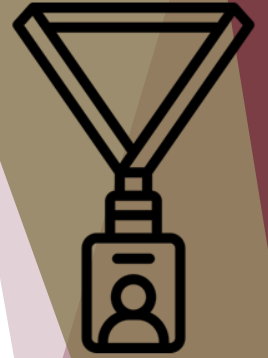
- All shoes must be black leather, shoes must not be branded with sports logos of any kind or colour.
- No shoes with white or trainer soles.
- Do not be guided by what the supermarkets are selling in the 'Back to School' section.



Dressing for Success

Lanyards, Jewellery, Hair & Make-up:

- Lanyard and ID card holders will be reissued in September.
- One pair of stud earrings and a watch only; no nose studs of any kind.
- No rings or bangles whatsoever, including material bracelets.
- Religious artefacts are permitted but must be minimal e.g. the Sikh kara. (Permission will be approved by a letter to the headteacher)
- Hair must be a single, natural colour. No two tone hair of any kind.
- Hair extensions are not permitted and could easily cause a safety issue in PE, Dance or Drama.
- No fake nails, extensions or nail varnish of any colour.
- No eyelash extensions



Thank you for coming!

Miss Raheman
Head of Year 9

Craheman@barnhill.school



Mr Millington-King
Head of Year 8

Mmillingtonking@barnhill.school



Miss Gill
Pastoral Support
Manager Y8

Dgill@barnhill.school



Miss Aldous
Pastoral Support
Manager Y9

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Pastoral key contact



Mrs Qureshi
Associate Headteacher
Achievement

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Mr Macauley
KS3 Achievement Lead

Lmacauley@Barnhill.School



Mr Chentouf
KS3 Maths Lead

Hchentouf@Barnhill.School



Mr Spoor
KS3 English Lead

Cspoor@Barnhill.School



Mrs Mohobuth
KS3 Science Lead

SMohobuth@Barnhill.School

Achievement/Curriculum
key contact

Please remember to give us feedback

<https://forms.office.com/e/tWdvQFb7ir?origin=lprLink>



Do not forget to give us feedback by scanning this QR code using your phone. Thank you

