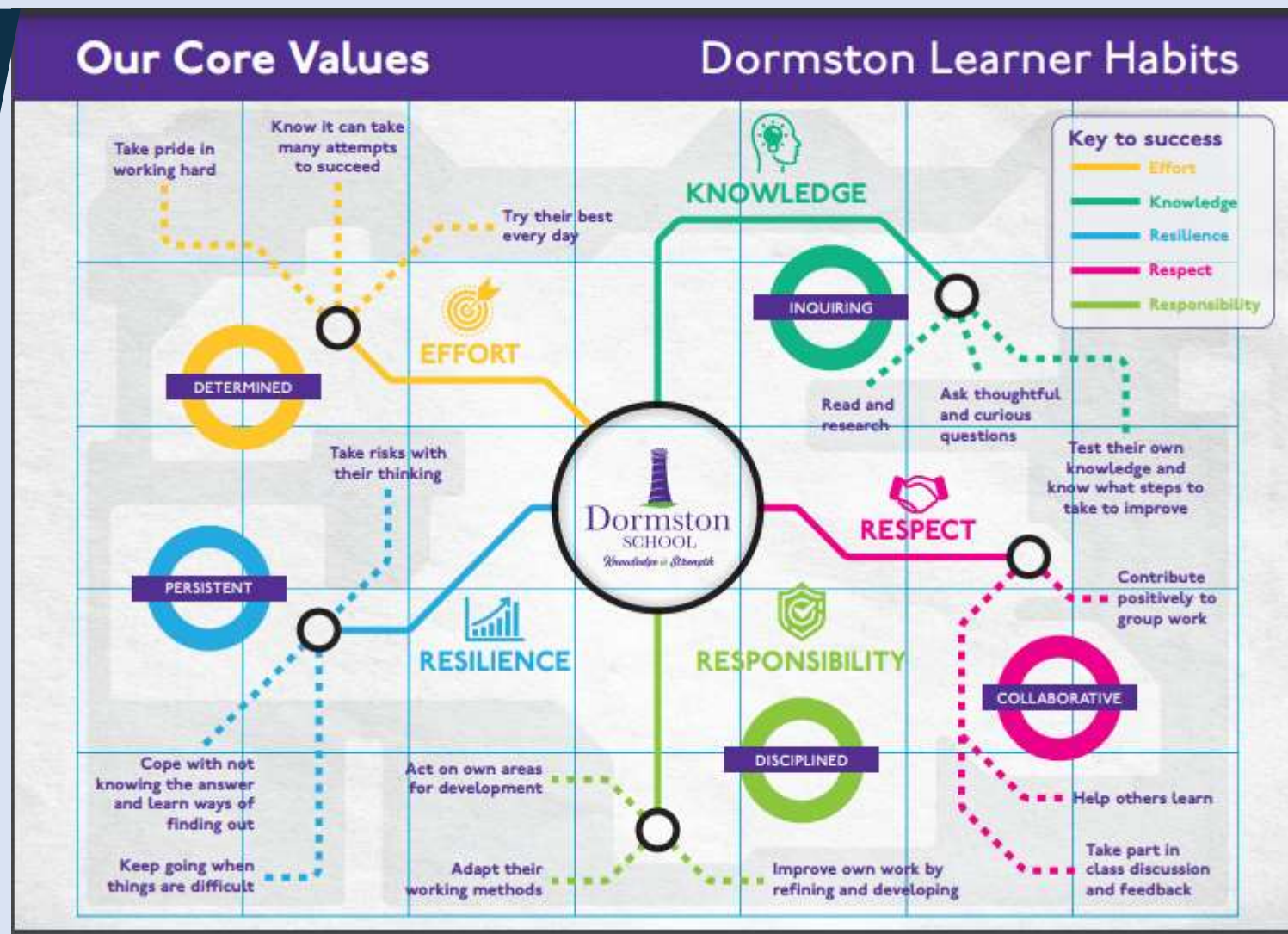
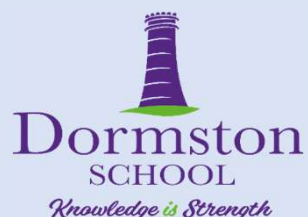




Welcome

Year 9 Strategy

Mrs N Garrett



Aims of the evening:

- Explain the role of the Year Strategy Leader
- Provide an overview of the Year 9 Strategy – Careers, PSHE and character education
- How to make use of Go4Schools
- New homework policy and parental tracking on Go4Schools
- Share key dates for 2022-23

Mrs N Garrett
Year 9 Strategy Leader

- Overview of the English Curriculum
- Overview of the Maths Curriculum
- Overview of Science

Mrs L Barley
Head of KS3 English

Mrs R Bal
Head of KS3 Maths

Miss E Ward
Head of Science

Strategy leader role – how I can help

- Raise the profile of Year 9 progress, PSHE and character development.
- Motivate pupils through assemblies, careers advice, guest speakers in PSHE.
- **Monitor progress and attainment grades and identify pupils that may need intervention.**
- **Support pupils when making their GCSE Option Choices**
- Help to highlight key areas for concern for these pupils – what is holding them back?
- Meet with these pupils and/or carers to discuss these issues.
- Make curriculum leaders, heads of house and form tutors aware of these pupils and discuss initiatives to help them get back on track.
- **Praise and reward** pupils who are making good progress in assemblies, through letters and phone calls home and certificates.



The importance of year 9

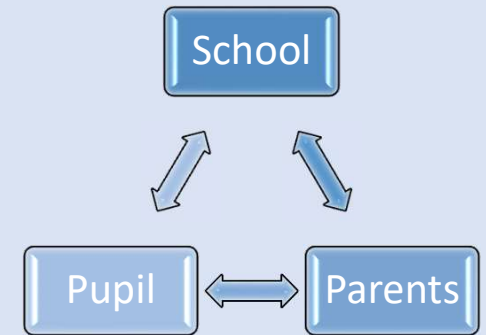
The PSHE focus is on Options and Careers

- It is the expectation that by the end of the year, all students in year 9 will have developed the necessary skill to become **strong**, **resilient** and **independent** learners – ready for the challenges of the year/years ahead.
- Making curriculum choices in Year 9 is a very important part of their time in school. It is an opportunity for them to take control of their education and shape the way they want their future to be. The options they choose for Years 10 and 11 will affect how they spend their time at school for the next two years. The choices they make may also influence what course or job they decide to do after Year 11.



Key things for success in Year 9

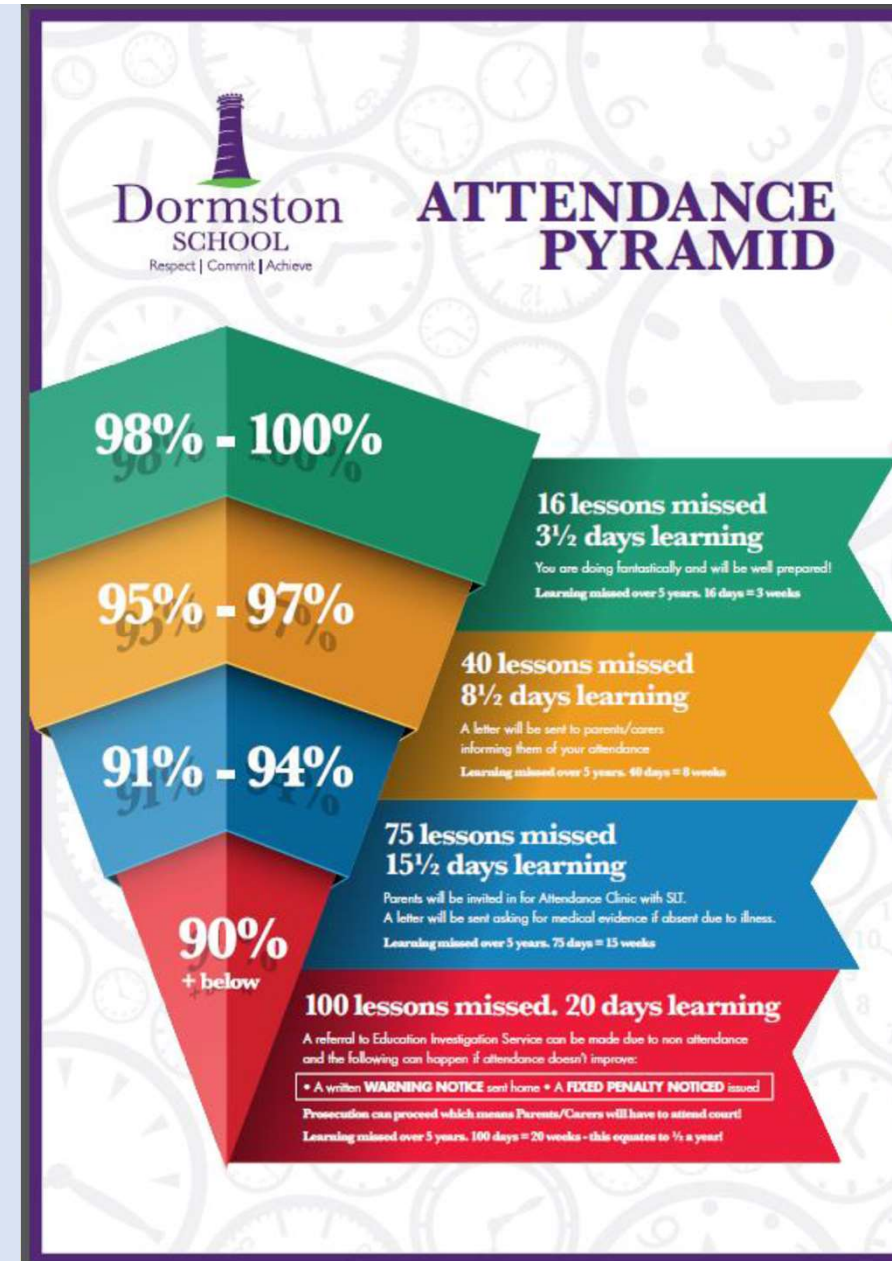
- Exemplary Attendance (98%+)
- Be punctual
- Be organised – equipment
- Have access to Go4Schools and RM Unify
- Complete Homework
- Attend Extra-Curricular Clubs
- Go above and Beyond in all subjects (at least an average effort score of a 2)
- Respond effectively to feedback
- Be polite, kind and an approachable person



Attendance

Any absence could result in:

- Missing key information from subjects
- Missing important deadlines
- Missing friendships and extra curricular
- Missing PSHE and character development opportunities



How attendance effects Grades

All pupils			
	Pupils	Average GCSE Grade	Average GCSE Value Added
All Pupils	209	4.9	+0.1
Attendance groups			
Above 95%	95	5.6	● +0.7
90.1 - 95%	62	5.1	+0.1
80.1 - 90%	<u>29</u>	3.9	-0.4
50.1 - 80%	16	2.7	● -1.1
0 - 50%	6	1.5	● -2.5

Flight Paths



End of Year Target: The targets have been generated by the school. They are based CAT's tests that they sat at the start of year 7. A student's target grade is a prediction that has been set to indicate where they should be each school year – the purpose of this is to help monitor if they are on track to meet their GCSE target grade by Year 11. With hard work, these grades are meant to be achievable.

Current grade: The grade the student is currently working at set by the subject teacher– this often has factored in multiple assessments and is based on all of their learning so far.

Predicted Grade: The grade the subject teacher thinks the student will actually get at the end of Year 9.

The 5 year curriculum

- Shift away from KS3 AND KS4 – spiral curriculum or built upon skills and knowledge
- Core subjects particularly have a 5 year curriculum
- Topics studied in Year 9 could be just as important as year 11

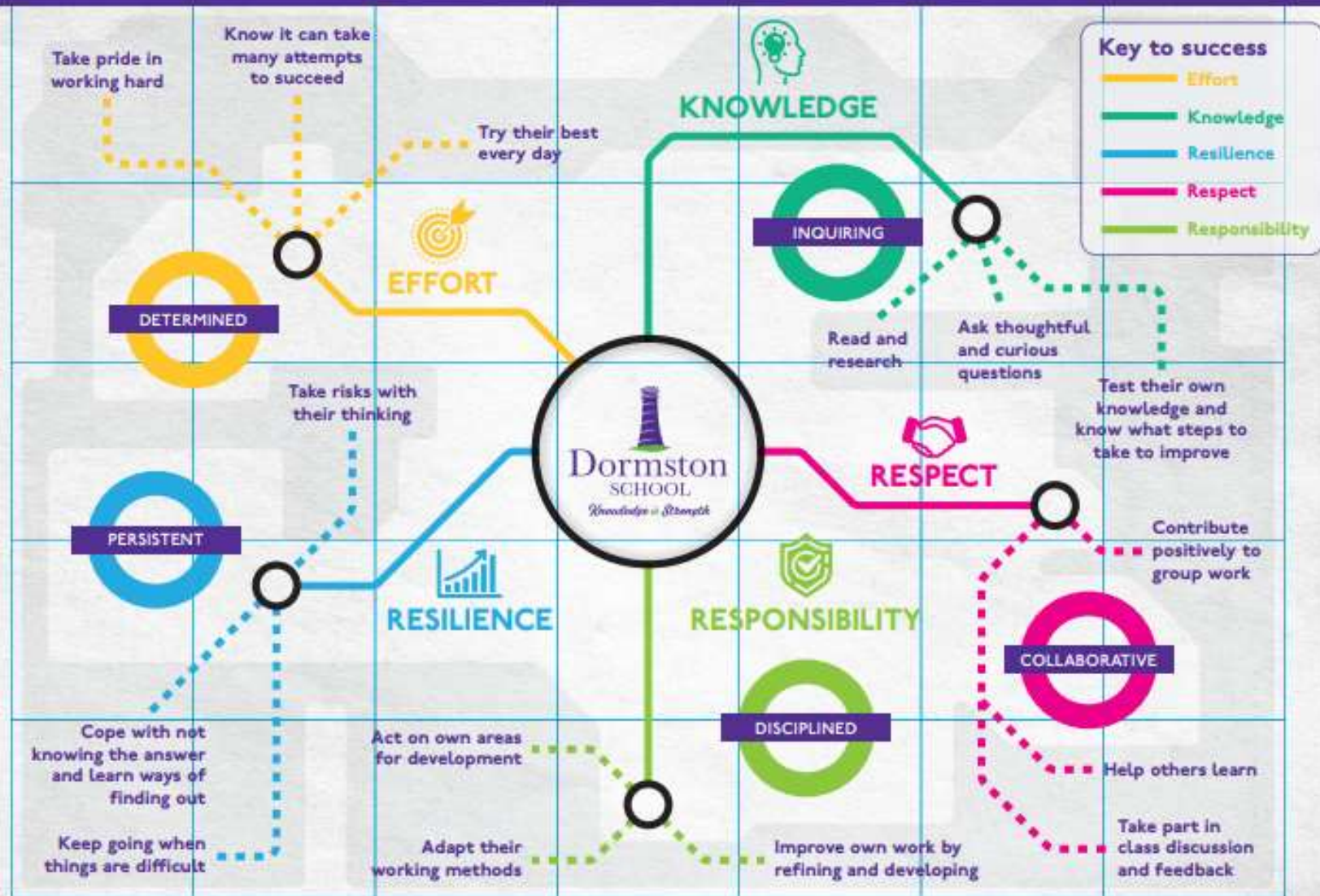
What Year 9 pupils should expect

- **An increase in subject difficulty**
- **An increase in homework**
- **Development of critical thinking skills to solve unseen problems**
- **Recall of old information**
- **Mastery of new information**
- **Beginning to plan for their future**
- **Development of Employability skills (Eg time management)**



Our Core Values

Dormston Learner Habits





The Curriculum

Year 7

Learner Habits

Puberty
Risky Behaviours
Physical Health & Addictions
Mental Health & Well Being
Active Citizenship
Exam Preparation

Year 8

Learner Habits

Crime & Consequence
Children's Rights & Responsibilities
Body Image & Developing Relationships
Careers & Stereotypes
Finance
Family Relationships & Conflict
Managing Emotions & Exam Stress

Year 9

Learner Habits

Character Education
Relationships & sexual Health/Wellbeing
Diversity
Careers & GCSE Options
Physical Wellbeing Addictions
Exam Preparation
Democracy

Year 10

Learner Habits

Mental Health and Wellbeing
Relationships & sexual Health/Wellbeing
Law & Rights
World of Work
Work Experience
Citizenship: Democracy
Exam Preparation
Active Citizenship

Year 11

Learner Habits

Post 16 Pathways
Finance
Exam Preparation
Making Positive Choices
First Aid

Year 9 Strategy Focus

- **Success in year 8 and moving forward & Character Education**
- **Relationships and Sexual Health:** - Healthy relationships, understanding, consent and the law, keeping safe and understanding risks.
- **Diversity:** - British values and respecting diversity, discrimination and the media
- **Careers & GCSE Options :-** employability skills, thinking ahead, Options and progress
- **Physical Wellbeing & Addictions:-** What are drugs, both legal and illegal and the law
- **Exam Preparation:** - Identifying different revision strategies
- **Democracy and Citizenship:** - Democracy, British Parliament and House of Commons
- **Transition to GCSE & Success Celebration**

Year 9 careers activities

- PSHE Spring Term – Careers & GCSE Options (Spring Term)
- GCSE Options Evening 2nd March 2023 - Local FE/HE providers, employers, apprenticeship & general careers advice available
- National Careers Week 6th -10th March 2023 (classroom based activities, workshops, employer engagement)
- Work Experience Launch Evening – 20th June 2023. To launch Work Experience programme for March 2024
- Halesowen College Taster Day – 6th July 2023



info@dormson.dudley.sch.uk

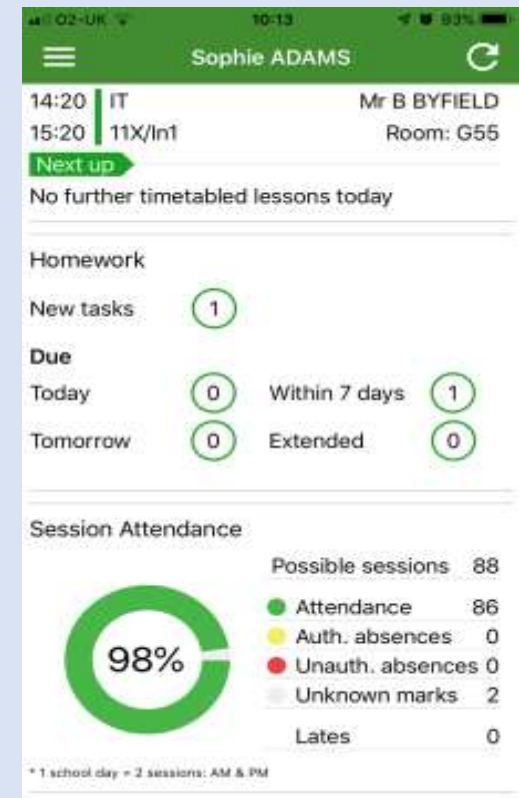
Key features and benefits:

- **Parents have 24/7 access to today's information about their children's education, including target grades and attendance statistics.**
- **GO 4 Schools Online Markbooks** parents can see real-time, subject-specific assessment information with formative assessment and access course descriptions.
- **GO 4 Schools Behaviour Tracking** parents can see real-time behaviour information.
- **GO 4 Schools Progress Reports** module parents can access progress reports online, either as web pages or as great-looking PDFs that they can print at home,
- Parents can check their children's **timetable** online, which helps reduce the number of forgotten PE kits, etc.
- Parents can also use the **GO 4 Schools Parental Engagement module** to notify the school of changes to their contact details.
- **GO 4 Schools Homework module** parents can support their child's independent learning with a clear view of homework set, due dates and homework content.

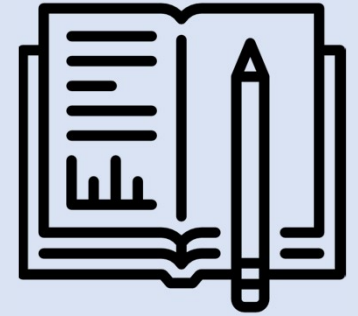
Go4Schools App

Online access for parents/guardians to information about their children's education

- Timetable
- Homework
- Behaviour records
- Attendance
- Target Grades
- 24/7 access to today's information



Homework



What homework will we set?

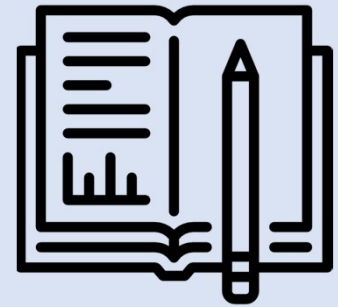
- Homework may **practice or extend** what has been learnt in lesson and strengthen knowledge and learning.
- Or **prepare** students for learning to come in future lessons.

Why do we set homework?

- Teaches students to manage their time
- Builds independence
- Extends knowledge
- Builds subject confidence
- Allows the subject teacher to assess their learning/knowledge
- It is a life skill – in future employment students may have to take work home and manage their own workload.

‘Evidence-based research has shown that students who regularly complete homework tend to make greater academic progress than those who don’t’ – Education Endowment Foundation

Homework Club



Need help or a space to work?

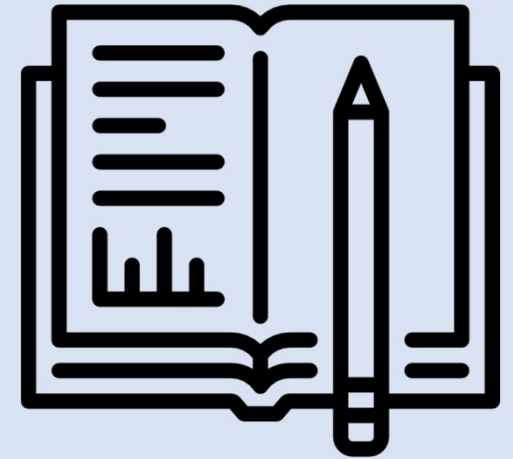


Monday-Friday:
After school in the PLC

All students welcome

Homework Policy

- Set according to homework timetable
- Will be a maximum of **50** minutes, but could be less
- Added to Go4Schools by subject teachers
- Teachers will track if it has been received on Go4Schools – **this can be seen by parents/carers**
- Teachers will use homework to further students' learning e.g. used as an activity in lesson or to inform future planning



Non-Completion:

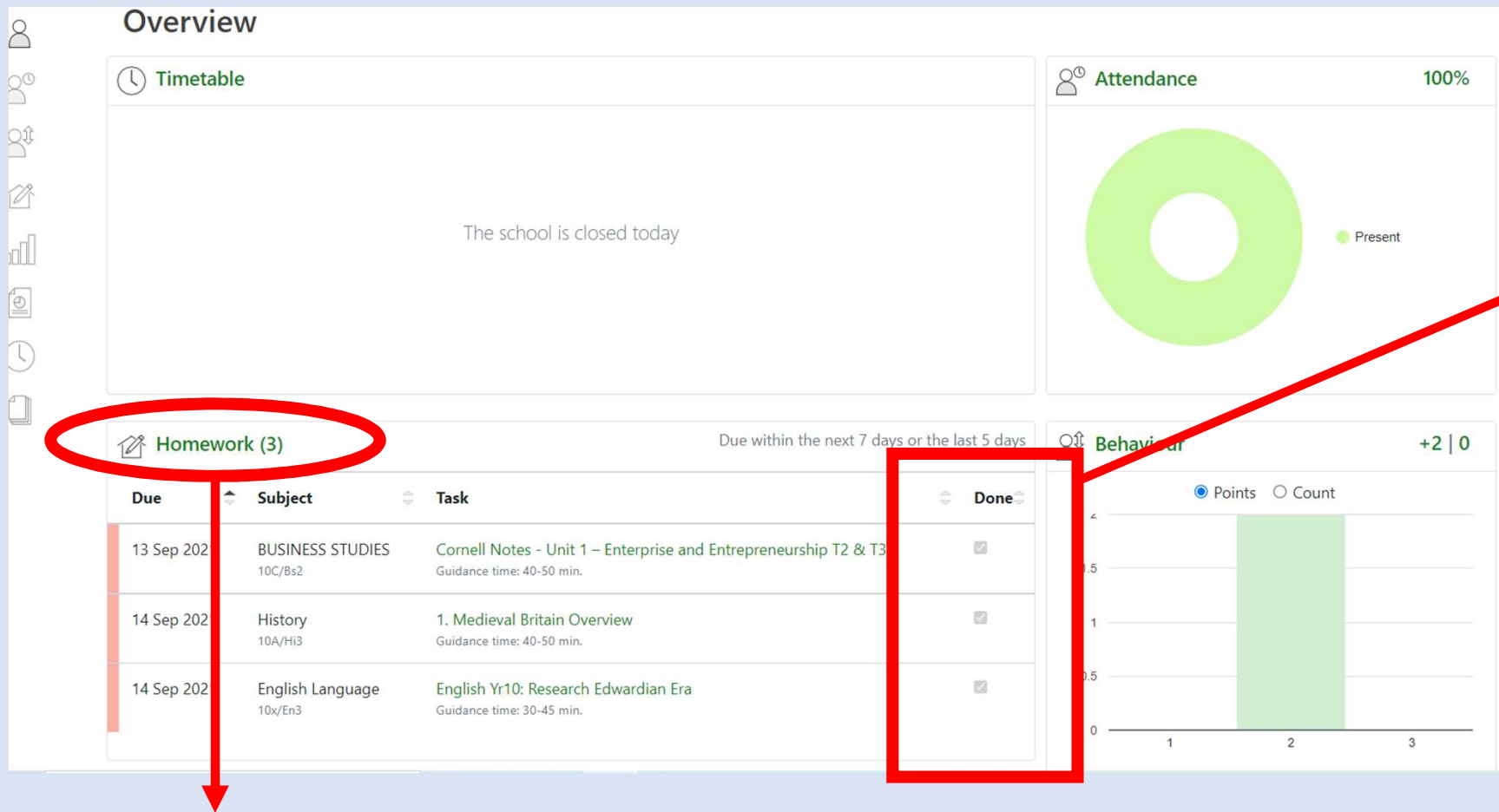
x2 no homework in one subject = Automated message sent home

x3 no homework in one subject = Teacher contacts home

x3 no homework in **multiple** subjects = Strategy Leader informal meeting to discuss issues

x4 no homework in **multiple** subjects = Strategy Leader and parents/carers formal meeting to discuss issues

Year Strategy Leaders will also be monitoring homework completion and speaking to students who are struggling to keep on top of their homework. Homework reports will be issued if homework continues to be not completed.



Students can tick homework tasks off as complete.

Until they are received by the subject teacher they will remain as active.

In lesson teachers will log homework as either:

Complete
Incomplete
Absent when set
Absent when due
Late

Click homework for full details and to see past homework pieces.

Once a homework has been marked as complete by the subject teacher it will disappear from the homepage view.

Ongoing (2)

Extended (0)

Due at least 1 days ago (0)

History (1)

Set today (0)

History

Due	Subject	Task	Status	Grade / Mark	Set	Done
14 Sep 2021	History 10A/Hi3	1. Medieval Britain Overview Guidance time: 40-50 min.	Complete	n/a	10 Sep 2021 Miss Barrett	<input checked="" type="checkbox"/>

Once a homework has been marked as complete by the subject teacher it will disappear from the homepage view but can be found under History.

Ongoing (3)	Extended (0)	Due at least 1 days ago (0)	History (0)	Set today (0)
-------------	--------------	-----------------------------	-------------	---------------

Ongoing

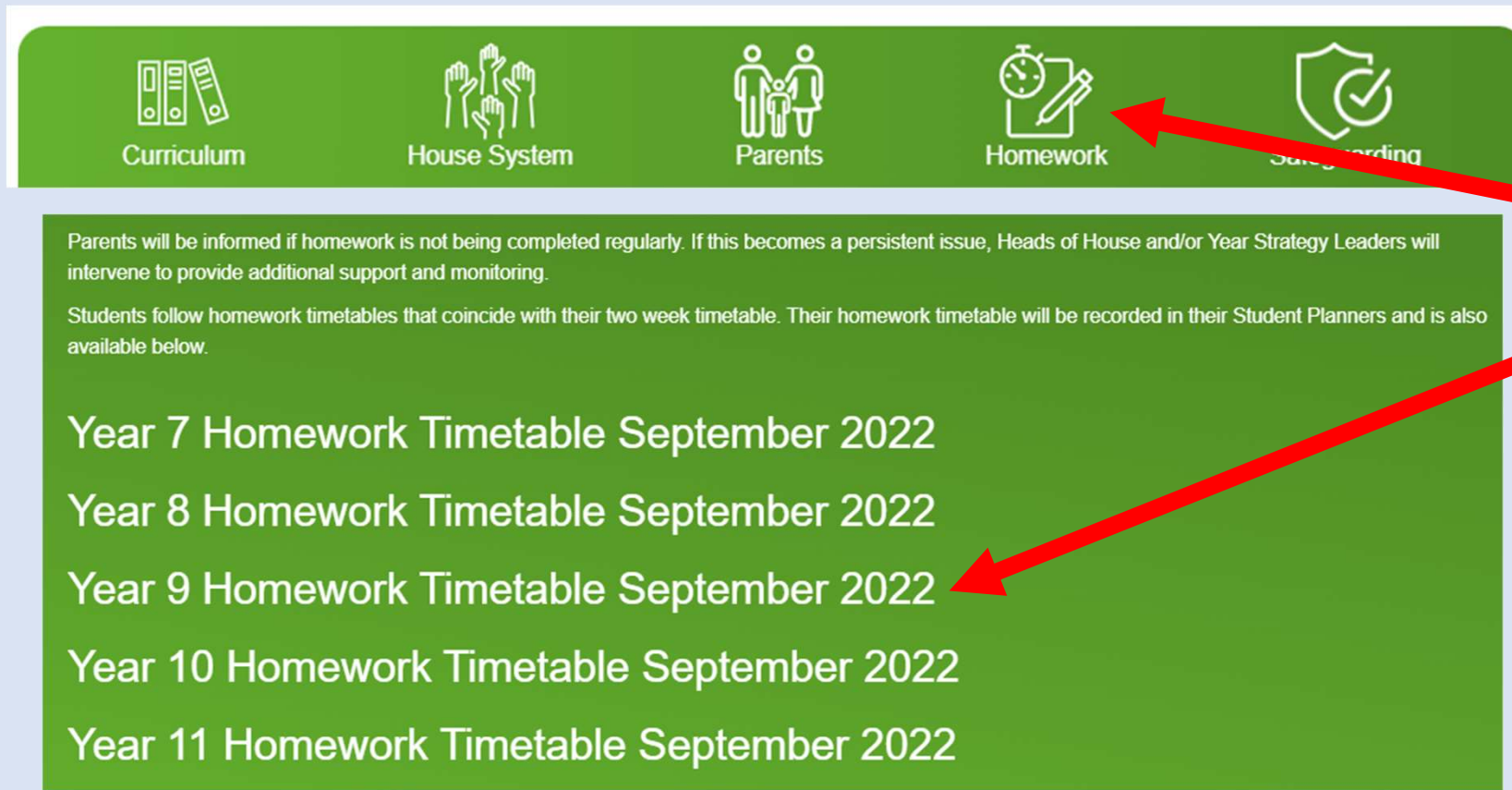
Depending on the nature of the homework task, items will stay on the list between 1 - 5 days.

Due	Subject	Task	Status	Grade / Mark	Set	Done
13 Sep 2021	BUSINESS STUDIES 10C/Bs2	Cornell Notes - Unit 1 – Enterprise and Entrepreneurship T2 & T3 Guidance time: 40-50 min.	No Status	n/a	7 Sep 2021 Mr Parr	<input checked="" type="checkbox"/>
14 Sep 2021	History 10A/Hi3	1. Medieval Britain Overview Guidance time: 40-50 min.	Incomplete	n/a	10 Sep 2021 Miss Barrett	<input checked="" type="checkbox"/>
14 Sep 2021	English Language 10x/En3	English Yr10: Research Edwardian Era Guidance time: 30-45 min.	No Status	n/a	7 Sep 2021 Mrs Connolly	<input checked="" type="checkbox"/>

Homework that has been marked as incomplete will remain 'ongoing' and appear on the homepage.

Click the homework title for more details, this is where you will see if a teacher has marked the piece as incomplete.

Homework Timetables have been shared with students but also available on the school website



The screenshot shows a green navigation bar at the top with five icons and labels: Curriculum (books), House System (hands), Parents (family), Homework (clock and pencil), and Safeguarding (shield). A red arrow points from the text 'Click on the homework tab then scroll down to select year' to the Homework icon. Below the navigation bar, the page content is on a green background. It includes a paragraph about parental notification, a paragraph about homework timetables, and a list of homework timetables for Years 7 through 11 for September 2022. A red arrow points from the text 'Click on the homework tab then scroll down to select year' to the 'Year 9 Homework Timetable September 2022' link.

Curriculum House System Parents Homework Safeguarding

Parents will be informed if homework is not being completed regularly. If this becomes a persistent issue, Heads of House and/or Year Strategy Leaders will intervene to provide additional support and monitoring.

Students follow homework timetables that coincide with their two week timetable. Their homework timetable will be recorded in their Student Planners and is also available below.

[Year 7 Homework Timetable September 2022](#)

[Year 8 Homework Timetable September 2022](#)

[Year 9 Homework Timetable September 2022](#)

[Year 10 Homework Timetable September 2022](#)

[Year 11 Homework Timetable September 2022](#)

Click on the homework tab then scroll down to select year

Homework (Week 1)

Each piece
should take
40 to 50
minutes to
complete.

		9X	9Y
Week One	Monday	Maths 9XK-RS 9XL-Co	Maths 9YO-RS 9YP-Hi
	Tuesday	French 9XK-Ar 9XM-Co	German 9YO-Hi 9YP-RS
	Wednesday	Science 9XL-Ar	Science
	Thursday	9XK-Hi & Gg 9XL-RS 9XN-Gg	DT 9YO-Gg 9YP-Gg
	Friday	English 9XK-Co 9XL-Gg	English

Homework (Week 2)

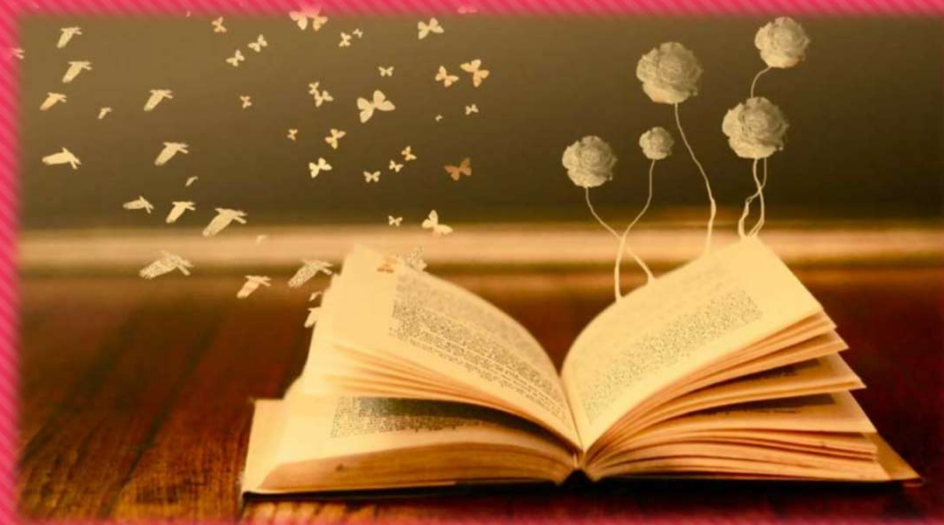
Each piece
should take
40 to 50
minutes to
complete.

		9X	9Y
Week Two	Monday	Science DT 9XM-Ar 9XN-Co	Science 9YO-Co 9YQ-Ar
	Tuesday	9XL-Hi 9XM-RS 9XN-Hi	9YQ-Gg & Hi 9YR-RS
	Wednesday	Maths	Maths 9YO-Ar 9YQ-RS 9Yr-Co 9YP-Ar
	Thursday	9XM-Hi 9XN-Ar	9YQ-Co 9YR-Hi & Gg
	Friday	English 9XM-Gg 9XN-RS	English 9YP-Co 9YR-Ar

Key Dates



Date	Event
20/09/22	Year 9 Strategy Launch to Parents
23/11/22	Effort & Current Grades
16/02/23	Year 9 Reports available on G4S
02/03/23	Year 9 Options Evening
23/03/23	Year 9 Parent Consultation Evening
w/c 19/06/23	Exam Week
20/06/23	Work Experience Launch Evening
07/07/23	Effort & Current Grades



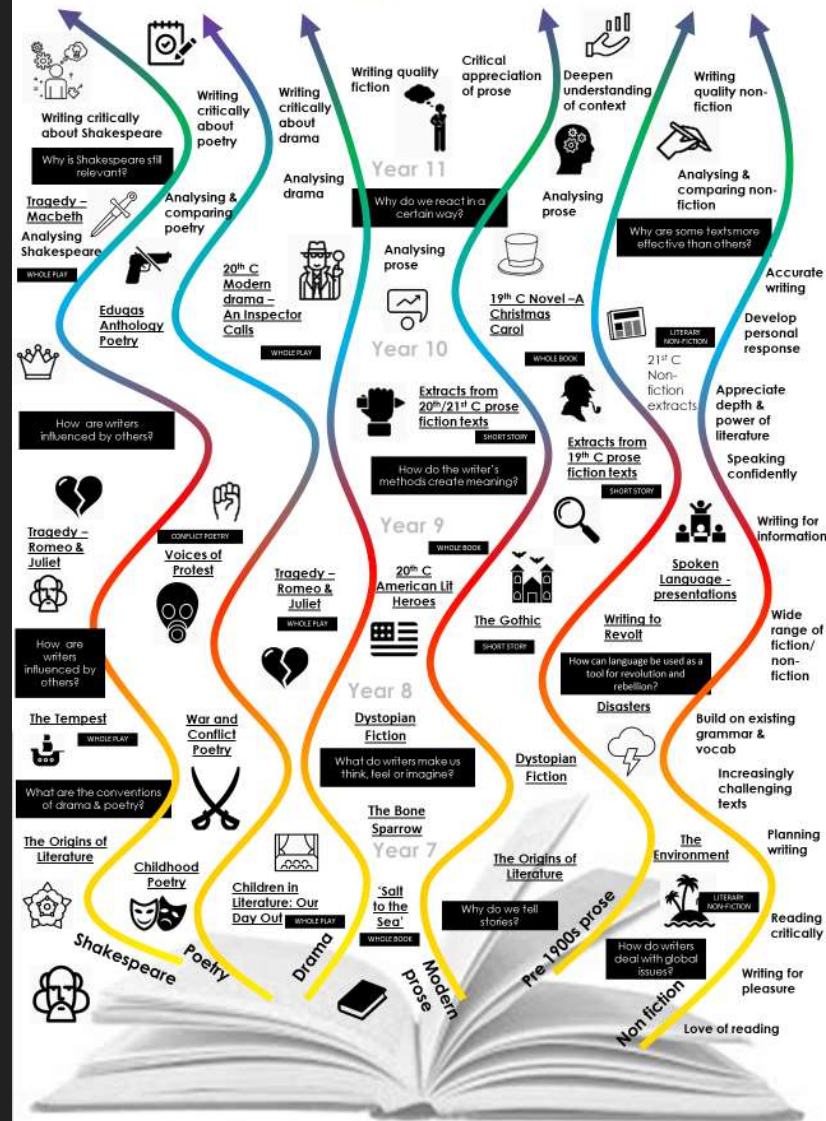
Welcome to Year 9!

Mrs Lauren Barley
KS3 Co-ordinator

What Year 9 will look like...

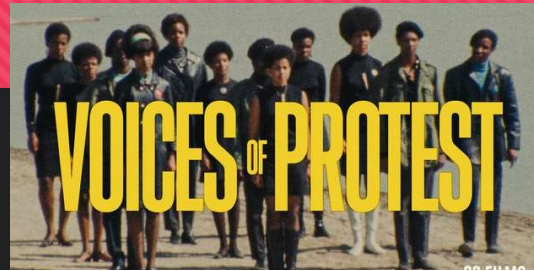


Read – Think – Discuss – Understand - Write



The English learning journey at Dormston

Exploring Each Topic:



Y9 HT1
7 weeks

Romeo and Juliet

Y9 HT2
7 weeks

Gothic Fiction

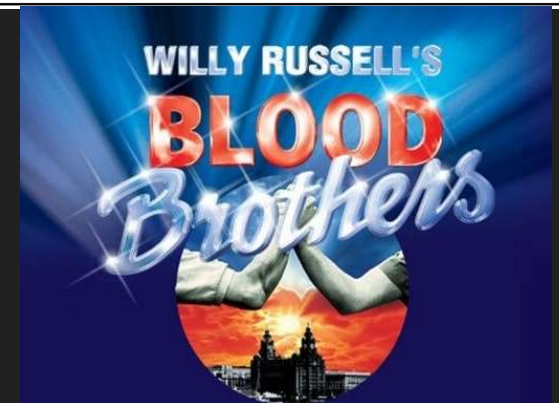
Y9 HT3
7 weeks
Whole Text
Contemporary Novel

Y9 HT4
6 weeks
Voices of Protest

Y9 HT5
5 weeks

Writing to Revolt
Blood Brothers

Y9 HT6
6 weeks



A change in approach:

- This year, The English Department are changing their approach to teaching the material for our KS3 pupils
- We want our pupils to have a rich and broad curriculum that builds upon the skills of Year 8 and lends itself to the developing and approaching challenge of Year 10



- Each child will be set homework once a week for English
 - This homework may be a prereading activity to support learning ahead of a new topic
 - Homework could also be something to challenge the understanding of a topic covered during the lesson

Supporting Learning at Home...

- Each topic of work, your child will be provided with a Knowledge Organiser to support their understanding of the topic and aid their revision
- Support booklets are also provided for those eligible for extra provision with tasks suitable for pupils to complete work at home
- We would like to take this opportunity to thank all of our parents and carers for supporting us at home



KS3 Newsletter

The English Department KS3 Autumn Newsletter

Welcome back: We are so pleased to welcome you back into our classrooms. Hopefully you have had a much needed break and have had time to relax ahead of a busy year. Times have been incredibly tough and we all have learnt a lot over the past two years. Now is the time to prove to yourselves what you're capable of.

Home Learning: All resources are available for you on Go4Schools. Make sure you communicate with your class teacher to maintain the pace of the class.

Year 7

Autumn 1: Myths and Legends – The Origins of Literature

What an exciting topic to start the new year with! We are thrilled to be able to offer you the opportunity to study texts right from the beginning of storytelling, learning all the fantastic writing techniques that authors have used over the centuries and building it into your own pieces of creative writing



Year 8

Autumn 1: Dystopian

How fascinating for you to be able to study an entirely new genre of writing! Have you ever considered what the end of the world would be like? Or maybe if a deadly tornado rips through your town leaving it decimated? You're about to find out how to build in all these writing skills into your own writing

Year 9

Autumn 1: Romeo and Juliet

One of Shakespeare's most famous plays; Romeo and Juliet. You will study the characters and relationships throughout this text so that you are fully confident with the style of language. Plunging into plots of love, suicide and revenge, Romeo and Juliet will have you on the edge of your seat!



Reading

Led by Mr D Fox

One in six people in the UK struggle with literacy. This means their literacy is below the level expected of an eleven year old.

National Literacy Trust

Literacy: State of the Nation – A Picture of Literacy in the UK Today, 2010



○ 41% of 11-15 year-olds in England do not participate in reading that are not required for school in their spare time.

○ Biggest influence is parents.

Benefits of reading:

- Evidence suggests that children who read for enjoyment every day...
- perform better in reading tests.
- develop a broader vocabulary.
- increased general knowledge.
- a better understanding of other cultures.
- leads to lifelong learning.
- Increased social mobility.

20 Minutes of Reading Tonight?

Student "A"
reads **20 minutes**
each day

3600 minutes in
a school year

1,800,000 words



90th percentile

Student "B"
reads **5 minutes**
each day

900 minutes in
a school year

282,000 words



50th percentile

Student "C"
reads **1 minute**
each day

180 minutes in
a school year

8,000 words



10th percentile

Parent & Pupil Reading Group

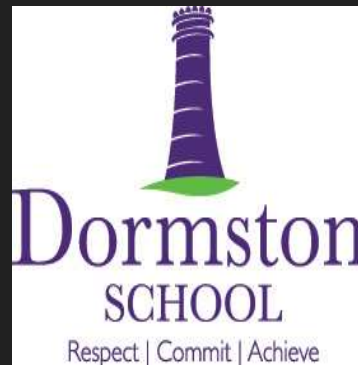


We encourage students to read independently for at least 30 minutes per day at home.

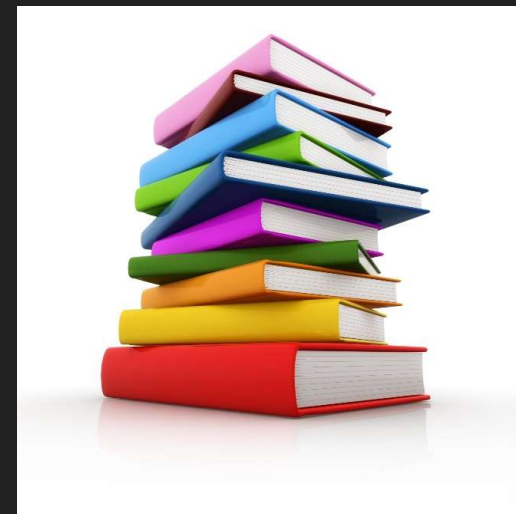
Please complete the reading log in your planner every day with - how many minutes reading you have done. Your parent/carer must initial this. Your planner will be checked regularly by teaching staff.

[illegible]

Parents



Supporting Your Child's Literacy



Maths at Dormston

Welcome to Year 9

Mrs R. Bal

KS3 Co-ordinator

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Algebraic Thinking							Place Value and Proportion					
	Sequences		Understand and use algebraic notation		Equality and equivalence		Place value and ordering integers and decimals			Fraction, decimal and percentage equivalence			
Spring	Applications of Number							Directed Number		Fractional Thinking			
	Solving problems with addition & subtraction		Solving problems with multiplication and division			Fractions & percentages of amounts		Operations and equations with directed number		Addition and subtraction of fractions			
Summer	Lines and Angles							Reasoning with Number					
	Constructing, measuring and using geometric notation			Developing geometric reasoning			Developing number sense		Sets and probability		Prime numbers and proof		

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Proportional Reasoning						Representations						
	Ratio and scale		Multiplicative change		Multiplying and dividing fractions		Working in the Cartesian plane		Representing data		Tables & Probability		
Spring	Algebraic techniques						Developing Number						
	Brackets, equations and inequalities				Sequences	Indices	Fractions and percentages		Standard index form		Number sense		
Summer	Developing Geometry						Reasoning with Data						
	Angles in parallel lines and polygons		Area of trapezia and circles		Line symmetry and reflection		The data handling cycle			Measures of location			

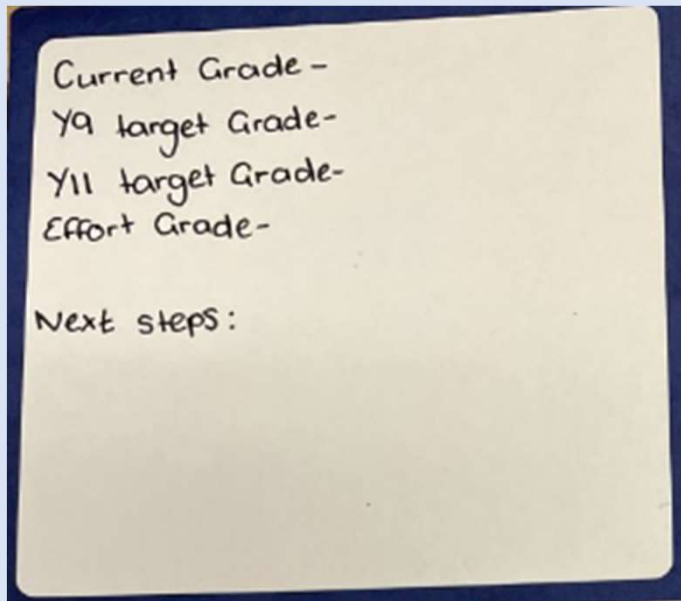
Learning	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Reasoning with Algebra						Constructing in 2 and 3 Dimensions					
	Straight line graphs		Forming and solving equations		Testing conjectures		Three dimensional shapes		Constructions and Congruency			
Spring	Reasoning with Number						Reasoning with Geometry					
	Numbers		Using percentages		Maths and money		Deduction		Rotation and translation		Pythagoras' Theorem	
Summer	Reasoning with Proportion						Representations					
	Enlargement and similarity		Solving ratio and proportion problems		Rates		Solving problems using graphs, tables and algebra					



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Similarity						Developing Algebra					
	Congruence, similarity and enlargement			Trigonometry			Representing solutions of equations and inequalities			Simultaneous equations		
Spring	Geometry						Proportions and Proportional Change					
	Angles & bearings		Working with circles		Vectors		Ratios & fractions		Percentages and Interest		Probability	
Summer	Delving into data						Using number					
	Collecting, representing and interpreting data						Non-calculator methods		Types of number and sequences		Indices and Roots	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Graphs						Algebra					
	Gradients & lines		Non-linear graphs		Using graphs		Expanding & Factorising		Changing the subject		Functions	
Spring	Reasoning						Revision and Communication					
	Multiplicative		Geometric		Algebraic		Transforming & Constructing		Listing & Describing		Show that...	
Summer	Revision						Examinations					

	Year 7	Year 8	Year 9	Year 10	Year 11
Algebra: Sequences	Autumn block 1 <ul style="list-style-type: none"> Recognise linear and non-linear sequences Autumn block 2 <ul style="list-style-type: none"> Generate sequences from an algebraic rule 	Spring block 2 <ul style="list-style-type: none"> Revise and extend Y7 coverage to include more complex rules Additional Higher content <ul style="list-style-type: none"> Find the rule for the n^{th} term of a linear sequence 	Autumn block 3 <ul style="list-style-type: none"> Testing conjectures about sequences Summer block 6 You could use the revision block to extend Y7/8 content including: <ul style="list-style-type: none"> Representing sequences Find the rule for the n^{th} term of a linear sequence 	Summer block 3 <ul style="list-style-type: none"> Revise and extend KS3 content, including names and types of sequences Higher tier content <ul style="list-style-type: none"> Find the rule for the n^{th} term of a quadratic sequence Sequences with surds 	Spring block 3 <ul style="list-style-type: none"> Review KS3 and Y10 coverage
	KS3 National Curriculum			KS4 National Curriculum	
	<ul style="list-style-type: none"> generate terms of a sequence from either a term-to-term or a position-to-term rule recognise arithmetic sequences and find the n^{th} term recognise geometric sequences and appreciate other sequences that arise 			In addition to consolidating subject content from key stage 3, pupils should be taught to: <ul style="list-style-type: none"> recognise and use sequences of triangular, square and cube numbers, simple arithmetic progressions, Fibonacci type sequences, quadratic sequences, and simple geometric progressions (r^n where n is an integer, and r is a positive rational number {or a surd}) {and other sequences} deduce expressions to calculate the n^{th} term of linear {and quadratic} sequences 	

Maths books front/inside covers





Feedback in Maths

As a Mathematics department, we understand that feedback on your learning is very important to help you to develop your skills and improve. These are some of the ways your Maths Teacher will provide feedback.

RAG sheets from MathsWatch

These RAG sheets show you your strengths and areas to improve from your 8 question MathsWatch homework tasks. Your teacher will then use these results to help you address any gaps in learning; you should also use these to watch the videos provided. You should expect these roughly twice every half term (although this may differ when you have other assessments and feedback).

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

RAG sheets from Assessments

These RAG sheets show you your strengths and areas to improve from your end of term topic tests. Your teacher will then use these results to help you address any gaps in learning; you should also use these to watch the videos provided. You should expect these every term.

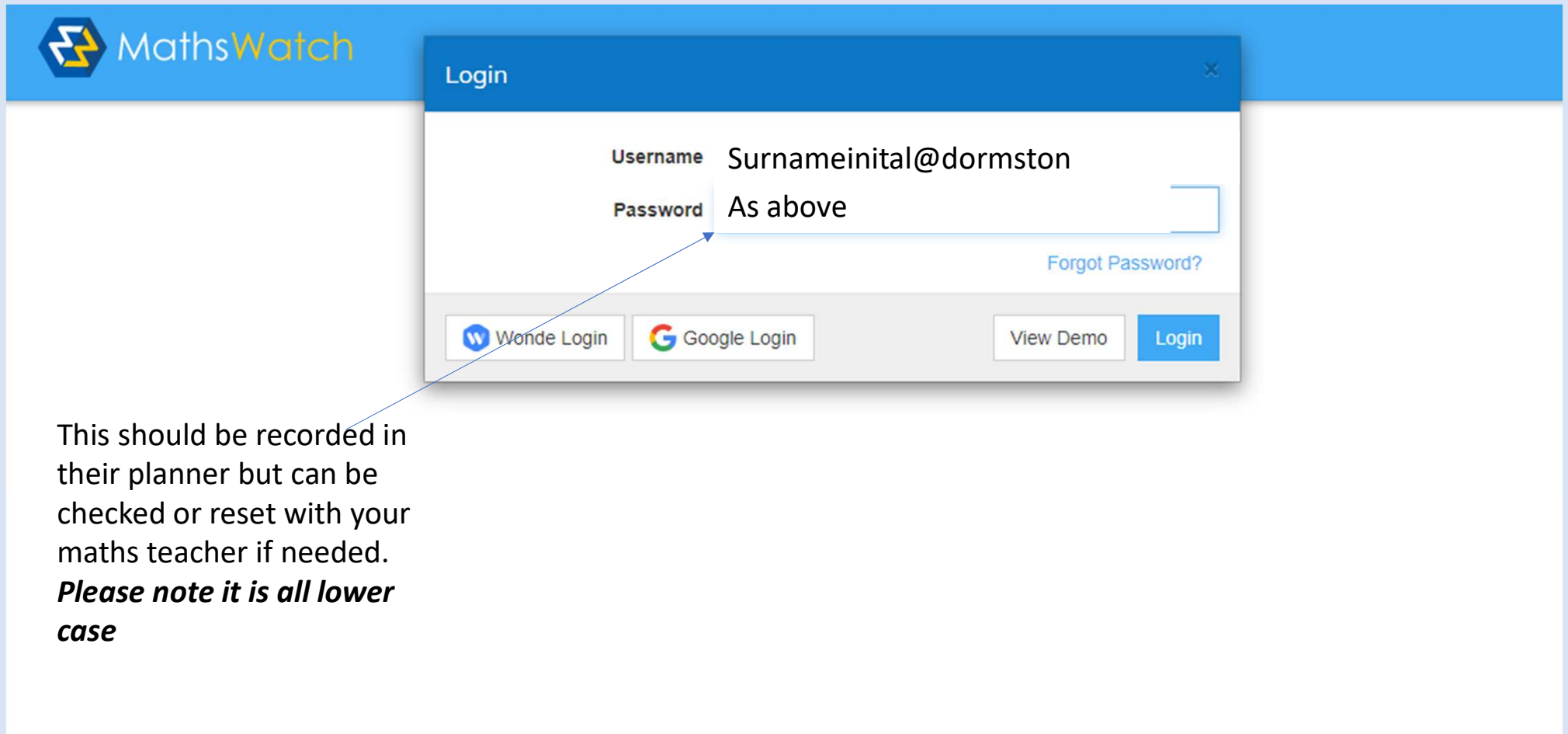
Mini Whiteboards

Every time you use your Mini Whiteboard, your teacher is assessing what you are learning. You will receive immediate feedback when the correct answers are shared to show you (and your teacher) where you are with your learning and to identify next steps.

Live Marking and Verbal Feedback

Accessing maths watch and non required work

1. Google search: mathswatch vle



The screenshot shows the MathsWatch website with a blue header containing the MathsWatch logo. A login modal is open, displaying the following fields and options:

- Username:** Surnameinitial@dormston
- Password:** As above
- [Forgot Password?](#)
-
-
-
-

A blue arrow points from the text below to the password field.

This should be recorded in their planner but can be checked or reset with your maths teacher if needed.
Please note it is all lower case

Difference between non required work and homework set



Assigned Work

[This Year's Work](#)
[All Work](#)
[Showing All Types ▾](#)

Homework Average

0%

Test Average

0%

Title	Type	Assigned By	Assigned	Due	Marks	%	Grade
Two way tables and frequency trees 10x4	HW	h work	14/09/2021	14/09/2021 08:00			
NRW 2021 Stage9 5 2 Pattern Sniffing	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 2 2 Construction	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 7 1 Calculating Space	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 1 1 Calculating	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 3 2 Algebraic Prof:Tinkering	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 5 1 Pattern Sniffing	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 2 1 Construction	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 4 3 Proportional Reasoning	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 6 2 Solving equations and Inequalities	HW	h work	13/09/2021	10/12/2021 08:00			
NRW 2021 Stage9 3 2 Algebraic Prof:Tinkering	HW	h work	13/09/2021	10/12/2021 08:00			

Marking and assessment feedback

$c, 4c, -4c, -12c, 20c$
 -8
 $+20\%$ ✓

22/03/19

Homework Feedback.

Stage 8 7 Proportional Reasoning


Clip Header	Clip R1a	Clip R1b	Clip R1c	Clip R1d	Clip R1e	Clip R1f	Clip R1g	Clip R1h
TOPIC								
Question No	Qu 1	Qu 2	Qu 3	Qu 4	Qu 5	Qu 6	Qu 7	Qu 8
Class Average %	83	83	83	83	83	77	92	83
Scaret	Hammonds							

Strengths
Intro to Ratio

Areas to Improve
Compound measures
Intro to Ratio

Homework Feedback

2. The ratio of red counters to blue counters is 1 : 3



11 more ✓

How many more red counters do you need to add to make the ratio of red to blue 4:13 ✓

5. There are 28 students in a class, 18 of them have of them own at least one pet.
What fraction of the class own pets? Give your answer in its simplest form.

200 ml of squash is made by mixing 40ml of cordial with water.
What fraction of the drink is water?
Give your answer in its simplest form.

a) A car drives 80km in 2 hours. What is the average speed of the car?

b) A car drives 22km/h for 3 hours. How far does the car travel?

c) A car drives 100km at a speed of 25 km/h. How long does the journey take?

8. a) A car travels 135 miles in 2 hours and 15 minutes. What is the average speed of the car?

b) A car drives at a speed of 60km/h for 3 hours and 20 minutes. How far does the car drive?

c) A car drives 100km at an average speed of 40km/h. How long does the journey take?

$100km = 400km$
 2.5 ✓

Definite improvement! FAB!

Other useful *hints and* websites

- Pinpoint learning – year 11
- Corbett maths
- Maths genie
- Maths kitchen – some areas are free but can pay for premium
- Whiterose maths
- Whiterose homelearning
- Onmaths – Can register to see progress
- Mathsgenie

Any questions please contact the following:

Rbal@dormston.dudley.sch.uk (Key stage 3 coordinator)

Mrock@dormston.dudley.sch.uk (Key stage 4 coordinator)

Ljacques1@dormston.dudley.sch.uk (Curriculum leader for mathematics)



Science at Dormston

MISS E WARD – CURRICULUM LEADER FOR SCIENCE

MISS J GREGORY- KS4 CO COORDINATOR (YEAR 9-10)

MRS R JAI- SECOND IN SCIENCE / YEAR 11

YEAR 9 COMBINED SCIENCE TRILOGY

Students in **sets 2 to 5 in Year 9** (both X and Y population) will study GCSE Combined Science Trilogy. They will be assessed terminally at the end of Year 11 and complete **six 1 hour 15 minute exams in Biology, Chemistry and Physics topics**. Students will complete three exams during exam week to assess knowledge and understanding.

	Topic	Link to Prior Learning	Topic	Link to Prior Learning
Autumn 1	B1 Cells <i>RP1 – Microscopy</i> <i>RP2 – Osmosis</i>	B1.1 Cells	C1 Atomic Structure & the Periodic Table	C2.1 The Periodic Table C2.2 Separation Techniques
Autumn 2	P1 Energy <i>RP14 – Specific Heat Capacity</i>	P2.2 Energy	B2 Organisation <i>RP3 – Enzymes</i> <i>RP4 – Food Tests</i>	B1.2 Structure and Function of Body Systems B2.1 Health & Lifestyle B1 Cells
Spring 1	C2 Structure, Bonding & the Properties of Matter	C1.1 Particles and their Behaviour C1 Atomic Structure & the Periodic Table	P3 Particle Model of Matter <i>RP17 – Density</i>	C1.1 Particles and their Behaviour P2.3 Motion and Pressure C2 Structure, Bonding & the Properties of Matter
Spring 2	B3 Infection & Response	B1.1 Cells B1 Cells	C9 Chemistry of the Atmosphere	C2.4 The Earth
Summer 1	B4 Bioenergetics <i>RP5 – Photosynthesis</i>	B2.2 Ecosystems Processes B2 Organisation	P4 Atomic Structure	C1.2 Atoms, Elements and Compounds C1 Atomic Structure & the Periodic Table
Summer 2	Revision, End of Year Assessment & Application-Based Learning			

YEAR 9 Triple SCIENCE

Students in **9X1** and **9Y1** will be preparing to study AQA Separate Sciences. They will follow the same timeline as the rest of the year group but will be taught all Separate Science content. They will be assessed terminally at the end of Year 11 and complete **six 1 hour 45 minute exams in Biology, Chemistry and Physics topics**. Students will complete three exams during exam week to assess knowledge and understanding.

Continued delivery of the AQA Separate Sciences course will be reassessed following the end of year exams in June 2023.


	<u>Topic</u>	<u>Link to Prior Learning</u>	<u>Topic</u>	<u>Link to Prior Learning</u>
<u>Autumn 1</u>	B1 Cells <i>B.RP1 – Microscopy</i> <i>B.RP2 – Microbiology</i> <i>B.RP3 – Osmosis</i>	B1.1 Cells	C1 Atomic Structure & the Periodic Table	C2.1 The Periodic Table C2.2 Separation Techniques
<u>Autumn 2</u>	P1 Energy <i>P.RP1 – Specific Heat Capacity</i> <i>P.RP2 – Thermal Insulation</i>	P2.2 Energy	B2 Organisation <i>B.RP4 – Food Test</i> <i>B.RP5 – Enzymes</i>	B1.2 Structure and Function of Body Systems B2.1 Health & Lifestyle B1 Cells
<u>Spring 1</u>	C2 Structure, Bonding & the Properties of Matter	C1.1 Particles and their Behaviour C1 Atomic Structure & the Periodic Table	P3 Particle Model of Matter <i>P.RP5 – Density</i>	C1.1 Particles and their Behaviour P2.3 Motion and Pressure C2 Structure, Bonding & the Properties of Matter
<u>Spring 2</u>	B3 Infection & Response	B1.1 Cells B1 Cells	C9 Chemistry of the Atmosphere	C2.4 The Earth
<u>Summer 1</u>	B4 Bioenergetics <i>B.RP6 – Photosynthesis</i>	B2.2 Ecosystems Processes B2 Organisation	P4 Atomic Structure	C1.2 Atoms, Elements and Compounds C1 Atomic Structure & the Periodic Table
<u>Summer 2</u>	Revision, End of Year Assessment & Application-Based Learning			

YEAR 9 half termly retrieval topics



Half term	Retrieval topic focus
Autumn 1	B1, C1
Autumn 2	C1, P1, B1
Spring 1	B2, P1
Spring 2	B2, C2, P3, C1
Summer 1	P3, B2, C9
Summer 2	C2, C9, B4, P4

Science books front/inside covers

		
End of year target grade		
Year 11 target grade		
Term	Grade achieved	Effort grade
Autumn		
Spring		
Summer		

Review B1 Cell Biology

Can you...?	😊	😐	😞
B1.1 Cell Structure			
Name the main organelles of plant and animal cells (eukaryotic cells)			
Recall the relative size of bacterial cells (prokaryotic cells)			
Describe the difference in how the genetic material is found within eukaryotic and prokaryotic cells.			
Explain how the main sub-cellular structures, including the nucleus, cell membranes, mitochondria, cell wall and chloroplasts in plant cells and plasmids in bacterial cells are related to their functions			
Explain how the structure of different types of cell relate to their function in a tissue, an organ or organ system, or the whole organism. Including sperm cells, nerve cells and muscle cells in animals and root hair cells, xylem and phloem cells in plants.			
Describe cell differentiation			
Describe the differences in magnification and resolution between electron and light microscopes			
Define binary fission (biology only)			
Explain how to prepare an uncontaminated culture (biology only)			
B1.2 Cell division			
Recall that the nucleus of a cell contains chromosomes made of DNA molecules. Each chromosome carries a large number of genes. In body cells the chromosomes are normally found in pairs			
Give an overview of mitosis			
Understand that Cell division by mitosis is important in the growth and development of multicellular organisms			
Recognise and describe situations where mitosis is occurring.			
Define a stem cell			
Recall that stem cells from human embryos and adult bone marrow can be cloned and made to differentiate into many different types of human cells			
Name some conditions which may be helped by treatment with stem cells			
Discuss the ethical or religious objections and potential risk of stem cell use			
Recall that stem cells from meristems in plants can be used to produce clones of plants quickly and economically and describe possible uses			
B1.3 Transport in cells			
Explain how substances may move into and out of cells across the cell membranes via diffusion			
Describe diffusion			
Recall that some of the substances transported in and out of cells by diffusion are oxygen and carbon dioxide in gas exchange, and of the waste product urea from cells into the blood plasma for excretion in the kidney			
Describe factors that affect the rate of diffusion			
Recall that a single-celled organism has a relatively large surface area to volume ratio to allow sufficient transport of molecules into and out of the cell			
Explain how the small intestine and lungs in mammals, gills in fish, and the roots and leaves in plants, are adapted for exchanging materials			
List factors that increase the effectiveness of an exchange surface			
Describe osmosis			
Recall that active transport moves substances from a more dilute solution to a more concentrated solution (against a concentration gradient). This requires energy from respiration.			
Link the structure of a root hair cell to its function.			
Describe a use for active transport in both plants and animals			



Dormston
SCHOOL

Science Department Learning Journey

YEAR 9-11

Year
11

C6 RATE & EXTENT OF
CHEMICAL CHANGE

P6 WAVES

P7 MAGNETISM &
ELECTROMAGNETISM

C10 USING
RESOURCES

B7 ECOLOGY

B6 INHERITANCE,
VARIATION &
EVOLUTION

C8 CHEMICAL ANALYSIS

P8 SPACE (TRIPLE)

P5 FORCES

C5 ENERGY CHANGES

C4 CHEMICAL
CHANGES

B5 HOMEOSTASIS &
RESPONSE

C7 ORGANIC
CHEMISTRY

P4 ATOMIC STRUCTURE

P2 ELECTRICITY

C3 QUANTITATIVE
CHEMISTRY

Year
10

C2 STRUCTURE &
BONDING

B2 ORGANISATION

P3 PARTICLE
MODEL OF
MATTER

B3 INFECTION &
RESPONSE

B4 BIOENERGETICS

P1 ENERGY

C9 CHEMISTRY OF
THE ATMOSPHERE

C1 ATOMIC
STRUCTURE

Year
9

B1 CELL BIOLOGY


1. Google search: educake

Accessing Science homework and non required work



This should be recorded in their planner but can be checked or reset with your teacher if needed. **Please note it is all lower case**

Student login

 Educake

Educake username
johns0045

☐ Remember my username

Educake password
As above

Log in

Marking and assessment feedback



Q1.

Read the information about stem cells.

Stem cells are used to treat some human diseases.

Stem cells can be collected from early embryos. These stem cells have not begun to differentiate, so they could be used to produce any kind of cell, tissue or organ. The use of embryonic stem cells to treat human diseases is new and, for some diseases, trials on patients are happening now.

Stem cells can also be collected from adult bone marrow. The operation is simple but may be painful. Stem cells in bone marrow mainly differentiate to form blood cells. These stem cells have been used successfully for many years to treat some kinds of blood disease. Recently there have been trials of other types of stem cell from bone marrow. These stem cells are used to treat diseases such as heart disease.

Evaluate the use of stem cells from embryos or from adult bone marrow for treating human diseases.

You should give a conclusion to your evaluation.

(Total 5 marks)

Q1.

Marks should **not** be awarded for simply copying the information provided. A mark may be awarded for a comparison between treatments if the answer only involves copied information.

any **four** from:

For all 4 marks to be awarded, there must be at least 1 pro and 1 con

embryo stem cells – examples of

pros

- can treat a wide variety / lots of diseases / problems
- many available / plentiful
- using them better than wasting them
- painless

cons

- (possible) harm / death to embryo
- (relatively) untested / unreliable / may not work
*allow long term effects not known
or may be more risky*
- embryo can't be 'asked' / 'embryo rights' idea

adult bone marrow stem cells – examples of

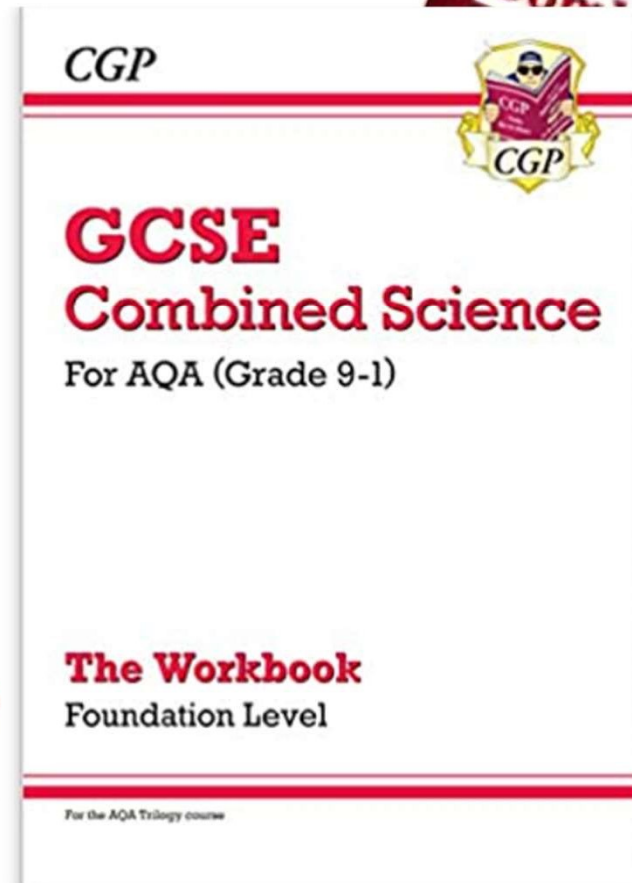
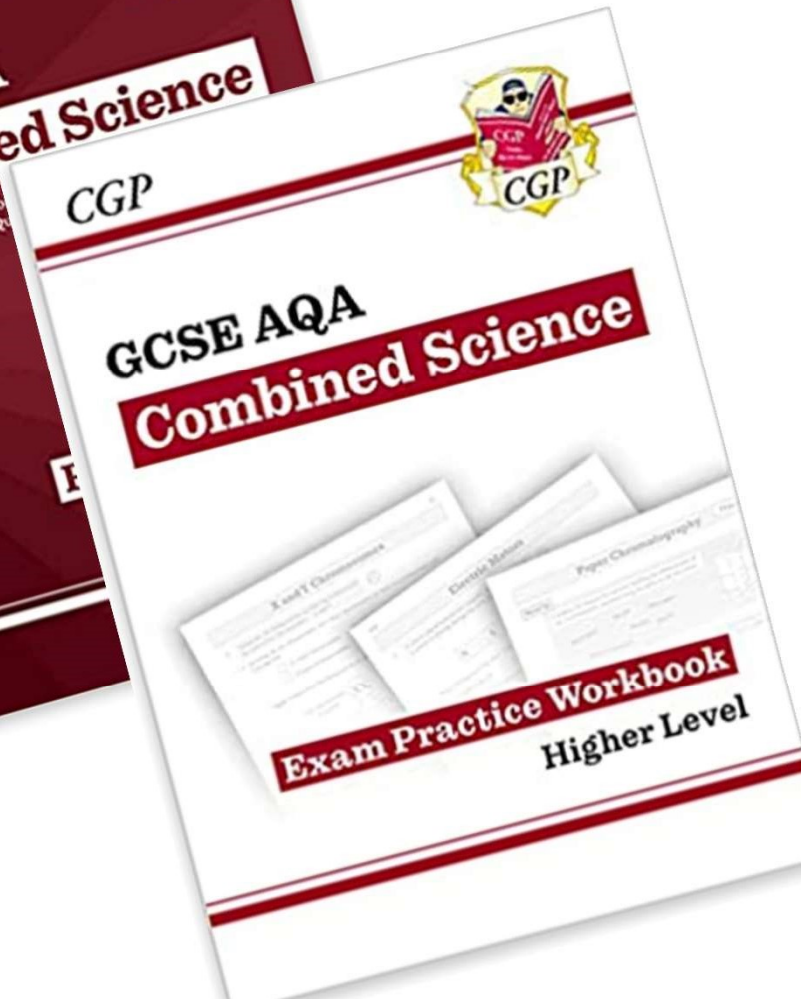
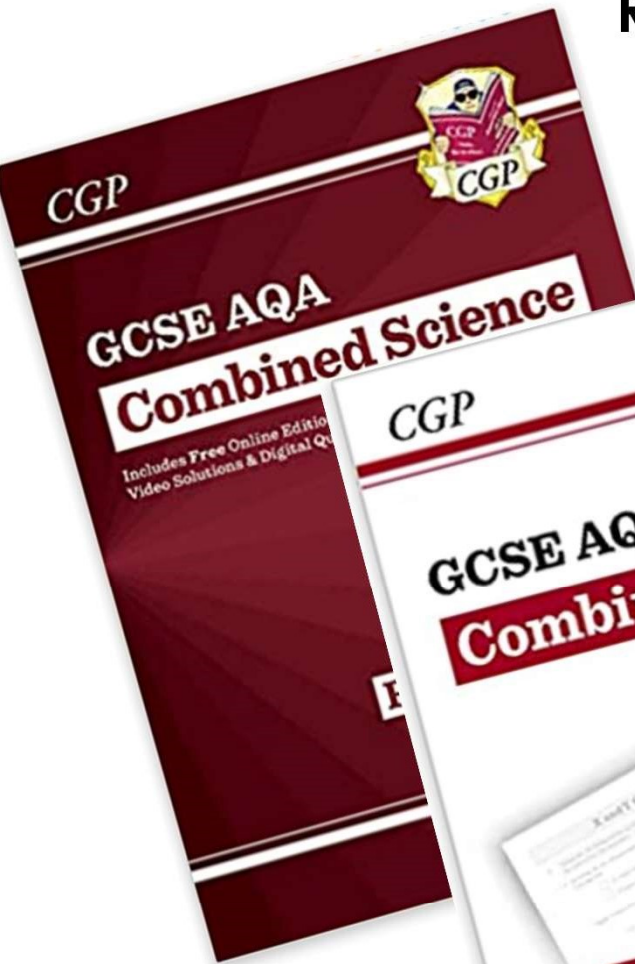
pros

- no ethical issues (in collection) **or** permission given
- quick recovery
- (relatively) safe
allow does not kill (donor) / low risk
- well tried / tested / know they work

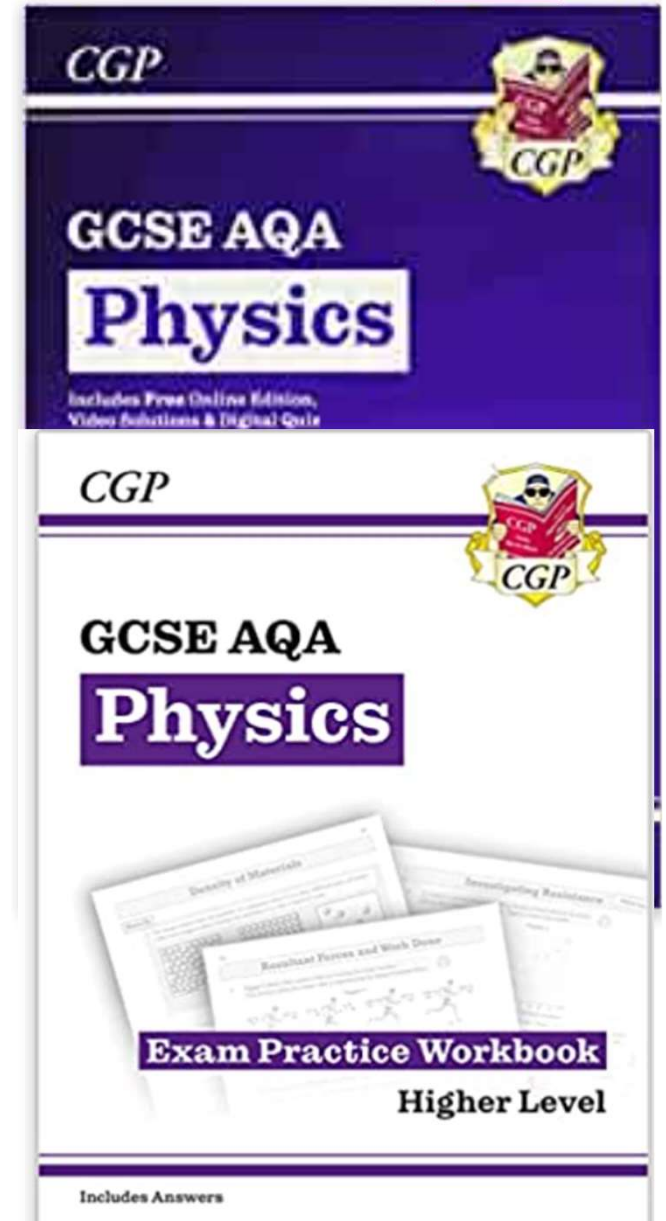
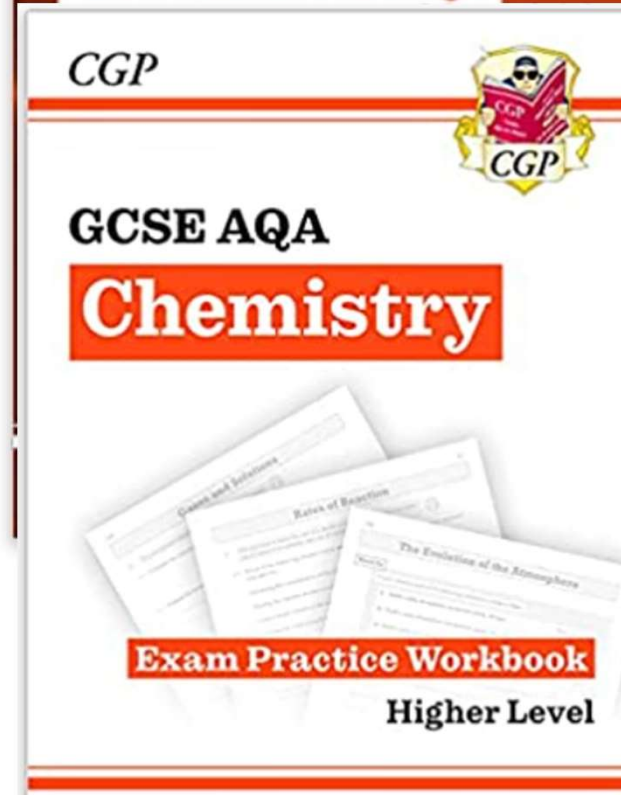
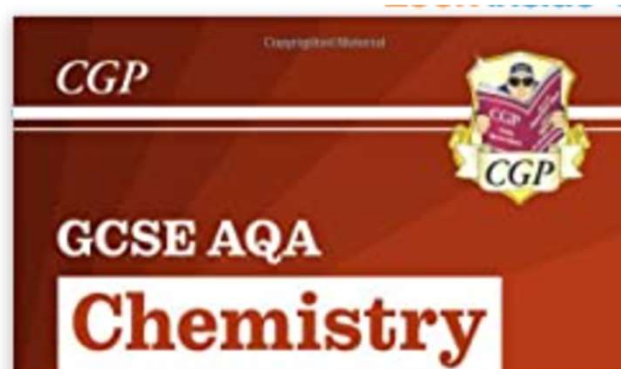
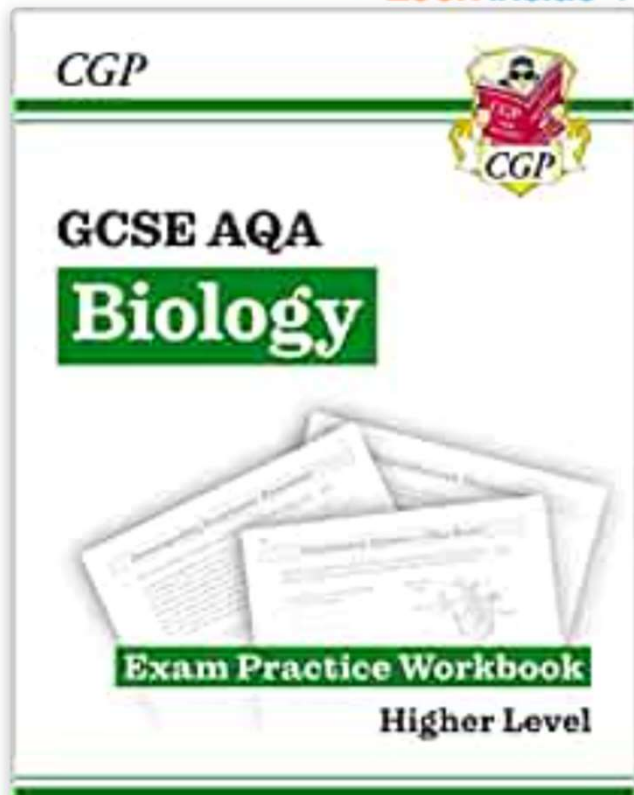
cons

- operation hazards eg infection
- few types of cell / tissue produced **or** few diseases / problems treated
- painful so may deter donors

Revision guide and workbook



Revision guide and workbook



Other useful *hints and websites*



- Cognito –free to sign up– year 9-11
- Seneca free to sign up – year 9-11
- Free Science lessons (youtube clips)year 9-11
- Savemyexams– some areas are free but can pay for premium
- Physics and maths tutor- year 9-11

Any questions please contact the following:



josmond@dormston.dudley.sch.uk (Key stage 4 coordinator)

eward@dormston.dudley.sch.uk (Curriculum leader for science)

rjai@dormston.Dudley.sch.uk (second in science)

Thank you for your support – if you have any questions please get in touch...

Behaviour, attendance or welfare: Head of House

Avon: PAmos@dormston.dudley.sch.uk

Derwent: RDownie@dormston.dudley.sch.uk

Severn: JWilkes@dormston.dudley.sch.uk

Trent: MPlant@dormston.dudley.sch.uk

Progress, effort, attainment or PSHE/RSE: NGarrett@dormston.dudley.sch.uk

Subject specific: Head of Department or Subject Teacher

SEND: KBeer@dormston.dudley.sch.uk