

**Welcome to the  
Year 9  
Academic Information  
Evening**



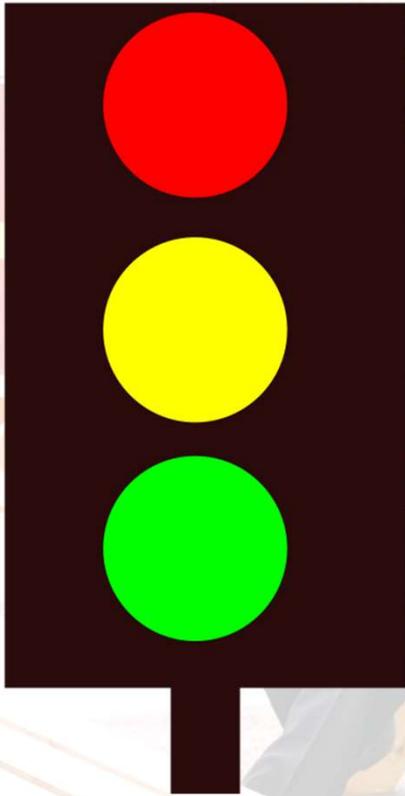
# **YEAR 9 KEY DATES 2019 - 2020**

<b>Year 9 Exams</b>	<b>06/01/2020</b>
<b>Options Evening</b>	<b>05/02/2020</b>
<b>Reports to Parents</b>	<b>14/02/2020</b>
<b>Parents Evening</b>	<b>26/02/2020</b>
<b>Year 9 Pastoral Evening</b>	<b>Spring Term TBC</b>

\*Dates subject to change



# Impact Of Attendance On Attainment



Less than 85% attendance = less than 30% chance of 5 A\* - C grade

Less than 90% attendance = less than 50% chance of 5 A\* - C grade

94% Attendance good chance of 5 A\*-C grades

95% Attendance very good chance of 5 A\* - C grades

*Persistent non attendance in now < 90% compared to < 85% previously. Attendance can be calculated across 12 months (rolling calendar Year)*



# Kings' Skills



## Speaking



The ability to communicate successfully through spoken language



## Collaboration



Working well with others: learning together and being positive



## Self Awareness



Knowing yourself; what you need to do to progress; and how your approach can help others



## Persistence



Keeping going and not giving up



## Organisation



Doing things well at the right time using the right equipment



## Big Picture Thinking



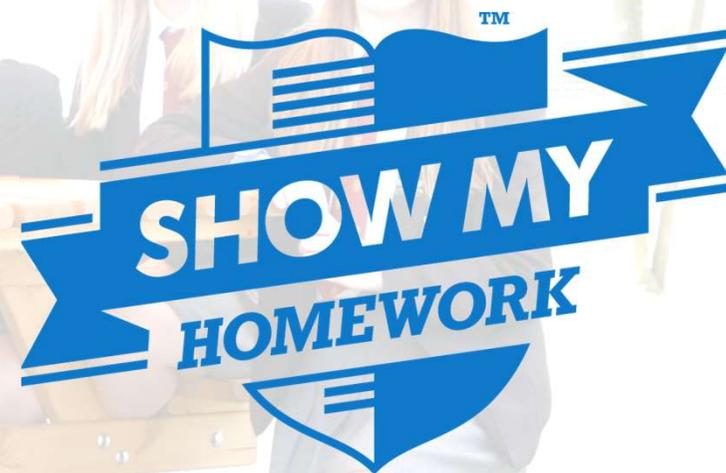
Thinking beyond the 'here and now' of the lesson

# Homework

## Key Stage 3 (Yr 7/8/9)

1 Hour per week	30 Minutes per week	30 Minutes per fortnight
English Maths Science	Foreign Languages*	Geography History Religious Studies BEE PSHEE Technology Music Drama Art

\*Second Foreign Language = 2<sup>nd</sup> 30mins per week



# What to expect when it come to 'Options'

## **Core Subjects** Which Subjects are in the Core?

The core curriculum is made up of subjects that all pupils continue to study.

	Lessons per week
• <b>English</b> – Language GCSE and Literature GCSE	4
• <b>Mathematics</b> – Mathematics GCSE	4
• <b>Science</b> – Combined Science (Dual Award) GCSE	4
(Triple Science is available as an option, which provides an extra two lessons)	
• Physical Education (PE)	2
• Personal, Social, Health and Economic Education / Citizenship (PSHEE)	½
• Assembly	½

# Looking ahead into Year 9

Time of **Transition**, **Change** and **Opportunity**

**Transition**- End of Key Stage 3 – Subjects dropped and Key Stage 4 Options completed.

**Change**- New classes- nature of GCSE- Government changes to examinations and increases in pupil home based learning.

**Opportunity**- Prefects- Year 10 work experience- we will be the most senior pupils from the Summer 2<sup>nd</sup> Half Term.



# Kings' School Year 9 Mathematics



**Head of Mathematics: Mr C Duckering**  
**Key Stage 3 Coordinator: Mr C Holligan**  
**Key Stage 4 Coordinator: Mr S Dumbleton**



# EXPECTATIONS OF PUPILS

- ▶ **Essential equipment:**

pen, pencil, ruler, scientific calculator, protractor, [air of compasses, exercise book

- ▶ **Kings' Skills**

- ▶ **Develop problem solving skills**

- ▶ **Act upon feedback**



# KEY STAGE 3 TO 4 NEW MATHEMATICS CURRICULUM YEAR 9

- ▶ Complete the KS3 syllabus in the Spring term
- ▶ Progress tracked throughout the year via end of unit assessments and homework
- ▶ GCSE course begins in the Summer term building on the KS3 syllabus
- ▶ Pupils will be reset at the end of Year 9



Mathematics Course Content  
GCSE Higher

Topic 1	Calculations 1
<ul style="list-style-type: none"><li>• Order positive and negative integers and decimals</li><li>• Round to a given number of decimal places or significant figures</li><li>• Add, subtract, multiply and divide positive and negative integers and decimals</li><li>• Use BIDMAS</li></ul>	
Topic 2	Expressions
<ul style="list-style-type: none"><li>• Simplify expressions by collecting like terms</li><li>• Use formulae</li><li>• Know the laws of indices</li><li>• Multiply out a bracket</li><li>• Factorise an expression using brackets</li><li>• Simplify algebraic fractions</li><li>• Carry out operations (+, -, x, /) with algebraic fractions</li></ul>	
Topic 3	Angles and Polygons
<ul style="list-style-type: none"><li>• Use angle facts at a point and with parallel lines (vertically opposite/alternate/corresponding)</li><li>• Use bearings</li><li>• Identify congruent shapes</li><li>• Identify Similar shapes and use similarity to find lengths and areas</li><li>• Know the sum of external angles for any polygon</li><li>• Find the internal and external angles in any polygon</li></ul>	

## SETTING IN YEAR 10

- ▶ Pupils are set based on their Year 9 exam results, their assessment scores throughout the year, their attitude in lessons and their class teacher's professional judgement.
- ▶ They are grouped depending on whether they take Triple or Double science for timetabling reasons.
- ▶ Pupils taking Triple Science will have a "T" in their set e.g. 10T2
- ▶ Pupils taking Double Science will either be in band 1 or 2 depending on where they have been set e.g. 10.1.2 or 10.2.3
- ▶ **No final decision will be made on tier of entry until the latest possible opportunity in Year 11 – we will always teach to the top where we can!**

# KS3 AND GCSE – THE DIFFERENCE

- ▶ More problem solving
  - ▶ More marks available per question
  - ▶ Increased difficulty
  - ▶ Reduced amount of scaffolding per question
  - ▶ Applying knowledge – the real difference
  - ▶ Fluency – reasoning – problem solving
- 
- A decorative graphic consisting of several parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

Mr Weaver's garden is in the shape of a rectangle.

In the garden

there is a patio in the shape of a rectangle  
and two ponds in the shape of circles with diameter 3.8 m.

The rest of the garden is grass.

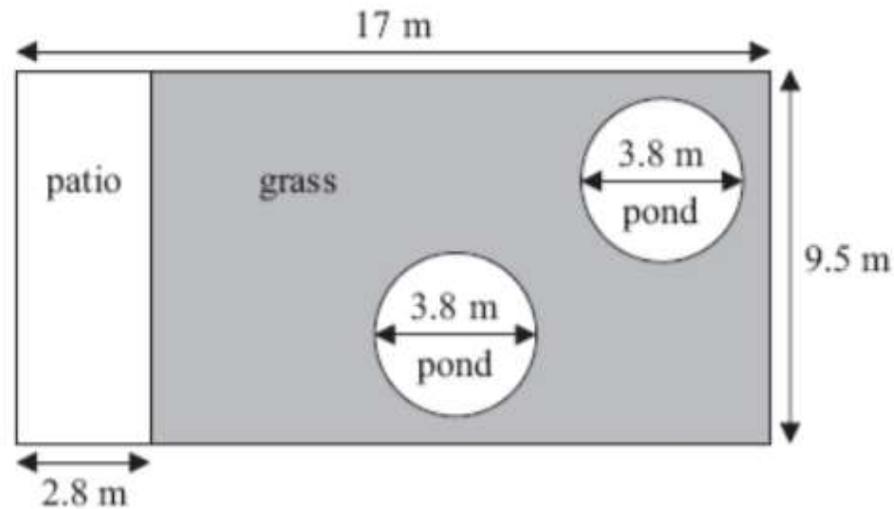


Diagram **NOT**  
accurately drawn

Mr Weaver is going to spread fertiliser over all the grass.  
One box of fertiliser will cover 25 m<sup>2</sup> of grass.

How many boxes of fertiliser does Mr Weaver need?  
You must show your working.

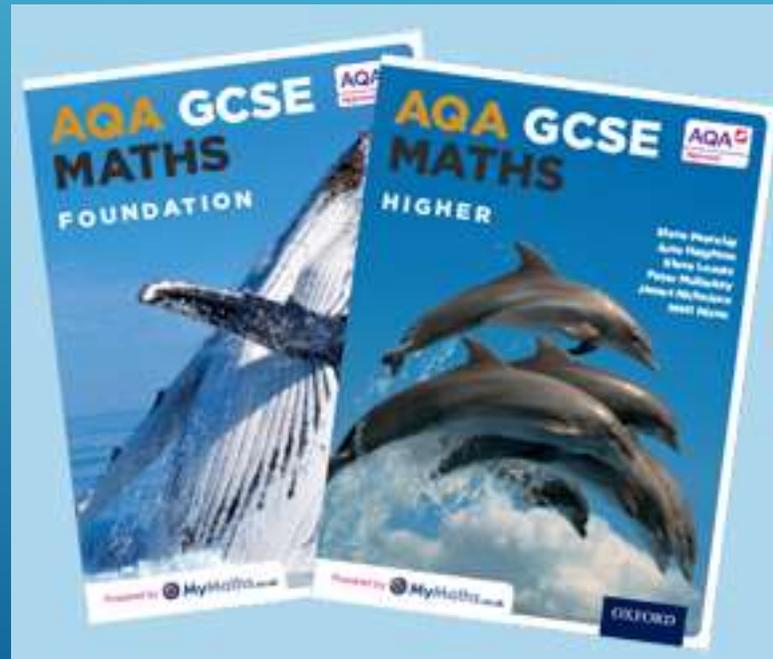
## THE NEW GCSE .... 1-9

- ▶ Grades range from 1 to 9, with 9 being the highest that you can achieve
- ▶ Two tiers - Foundation/Higher
- ▶ Grade 4/5 is the overlap between tiers
- ▶ There will be 3 examinations of 1 and a half hours each; 1 non-calculator and 2 calculator exams
- ▶ Standard Pass = 4
- ▶ New GCSE more challenging, however grade boundaries have gone down – for example, to achieve a Grade 7 last year, you only needed to achieve 57%.
- ▶ Easier to achieve a grade 5 in Foundation than Higher – hence our late decision for certain pupils.

# THE NEW GCSE .... 1-9

Exam board = Edexcel

Apply knowledge – The real difference



# HELP WITH UNDERSTANDING

## At home:

- ▶ Ask them to read/explain the question to you – often this in itself will inspire a way forward.
- ▶ Look through work with them and identify areas for improvement.
- ▶ Kerboodle.com - Invisipen/MyMaths tuition links
- ▶ GCSE – Mathsgenie, Corbett Maths, Maths Made Easy

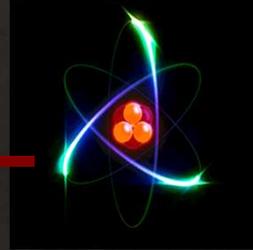
## At school:

- ▶ Class teacher
- ▶ Maths Café – Tues/Wed/Thurs lunchtimes



# SO FAR AT KINGS – KS3

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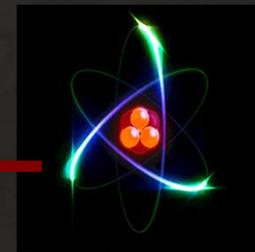
Year 7		Year 8		Year 9	
Cells and Organ Systems		B1	Photosynthesis and Respiration	B1	Variation
Earth and Space		B2	Health, Diet and Digestion	C1	Metals and Reactions
Pure Substances and Mixtures		B3	Ecosystems	P1	Forces and their Effects
Energy and Electricity		C1	Elements and Compounds		
Environment		C2	Chemicals and Reactions		
Particles and Physical Processes		C3	Our Planet		
Forces and Motion		P1	Waves		
Reproduction		P2	Heat and Energy Transfers		
		P3	Magnets and Electromagnets		

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**Year 9 Science Exam - January 2019**

# WHAT NEXT FOR YEAR 9?

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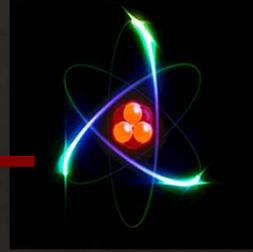


Start GCSE

Pupils will complete 2 topics  
for Biology, Chemistry and  
Physics

Year 10 sets will be determined by a pupil's  
Year 9 exam score as well as GCSE topic  
tests.

# STEP UP TO GCSE?



Yes, it will be more challenging.

KS3 is the foundation. Concepts are built upon in GCSE.

Example:

**What is the equation for aerobic respiration?**

KS3 glucose + oxygen → carbon dioxide + water

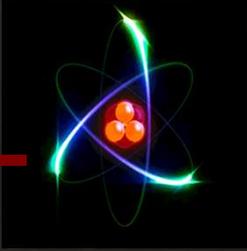
GCSE  $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$

What happens during anaerobic respiration?

How does the body reduce lactic acid?

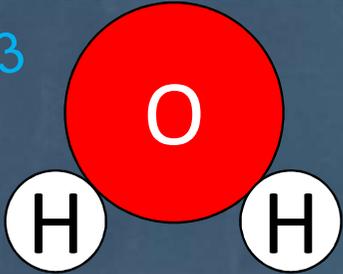
How can we use anaerobic respiration in yeast to make alcohol and bread?

# STEP UP TO GCSE?

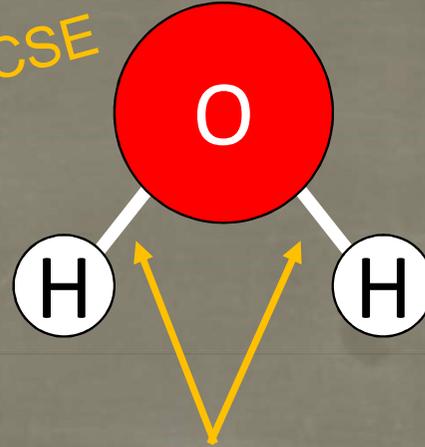


## Water Molecule?

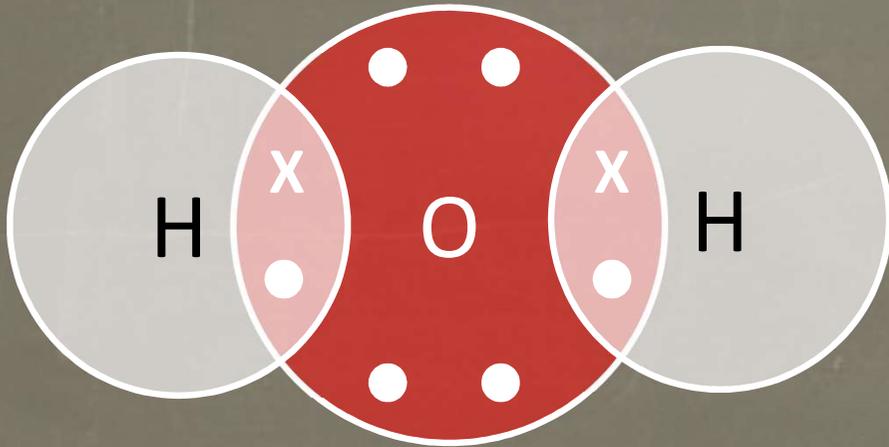
KS3



GCSE

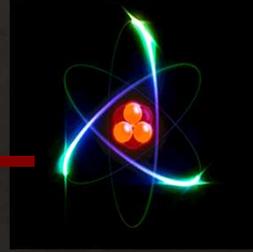


What type of single bonds are these?



How are the electrons shared between the atoms in a water molecule?

# STEP UP TO GCSE?



Arrow fired from a bow?

KS3  
Chemical → Elastic Potential → Kinetic → Thermal

GCSE

$$k = F / e$$

$$k = 100 / 0.42$$

$$k = 238 \text{ N/m}$$

$$E_e = \frac{1}{2} k e^2$$

$$E_e = 0.5 \times 238 \times (0.42)^2$$

$$E_e = 21 \text{ J}$$

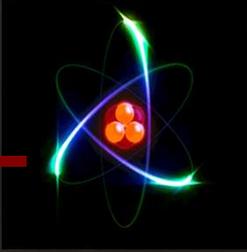
$$v = \text{sqrt} [ 2 E_k / m ]$$

$$v = \text{sqrt} [ 2 \times 21 / 0.050 ]$$

$$v = 29 \text{ m/s}$$

# THINKING TRIPLE?

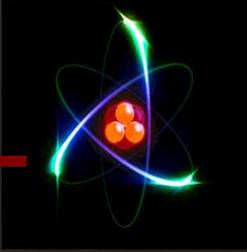
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PUPILS CAN DO  
A-LEVEL SCIENCE BY  
PASSING TRIPLE  
SCIENCE OR COMBINED  
SCIENCE!

# WHAT DO YOU NEED TO DO TRIPLE?

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A or B in the Year 9 Exam

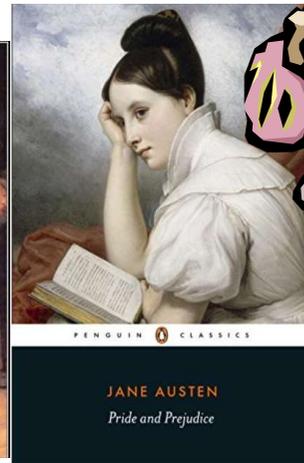
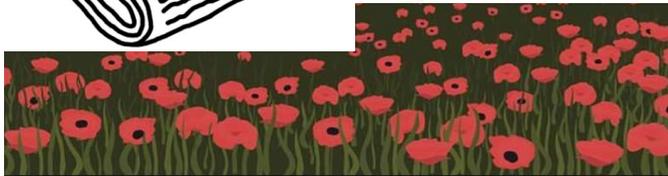
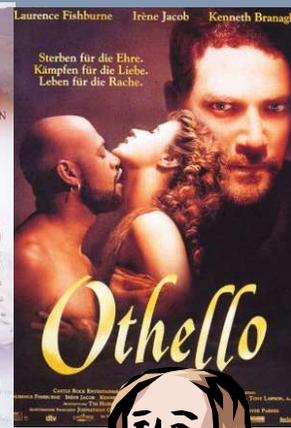
Teacher recommendation

# KS3 Y9 English curriculum

- **Reading**, **writing**, **speaking** and **listening**
- Units around a **theme** eg. war and conflict, unseen poetry poetry, classic novel etc.
- **Writing** – to describe, persuade, inform, argue etc.
- **Reading** – retrieval, inference, deduction, analysis of language



# An overview of the year

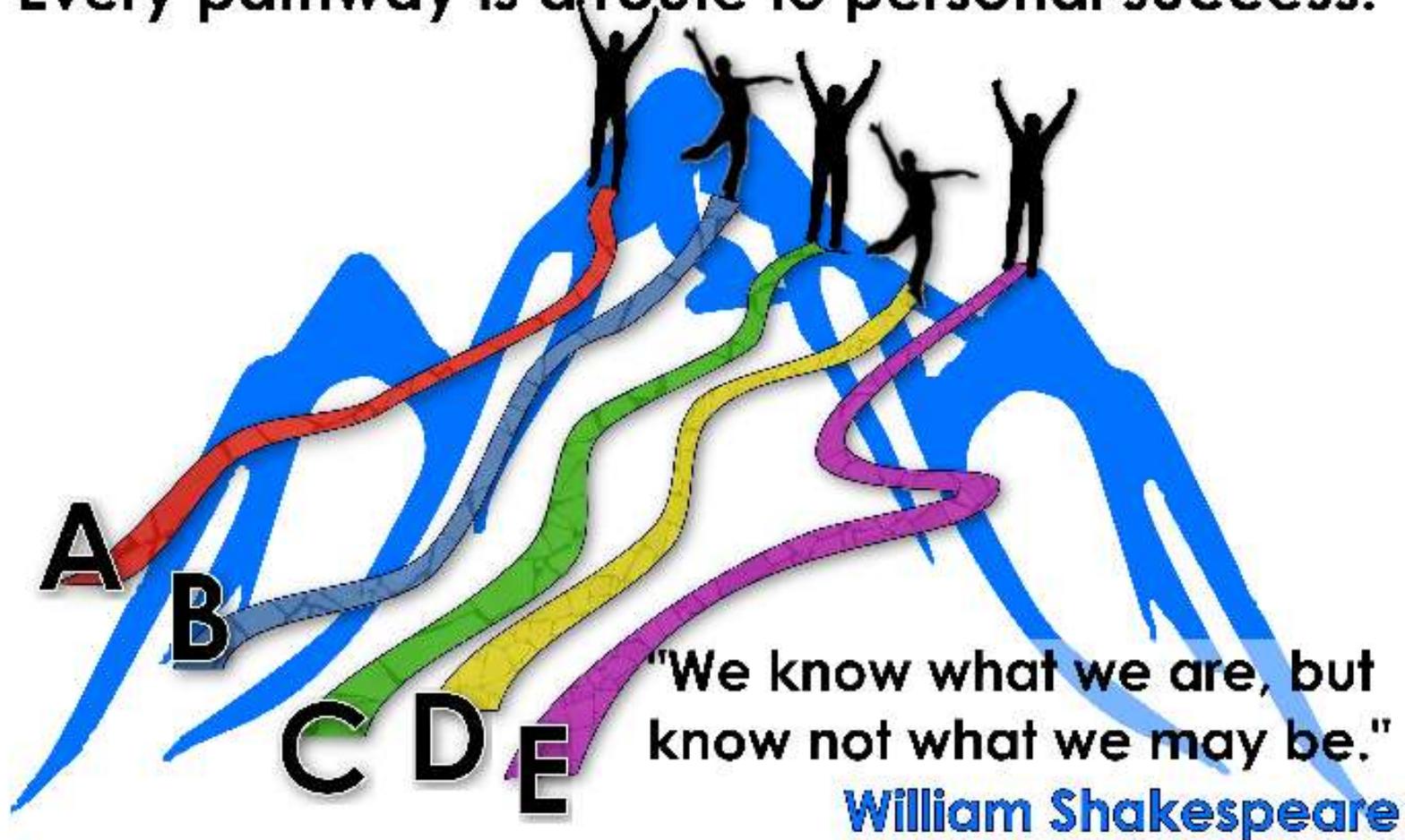






## KS3 / 4 ENGLISH

"Every pathway is a route to personal success."



"We know what we are, but  
know not what we may be."

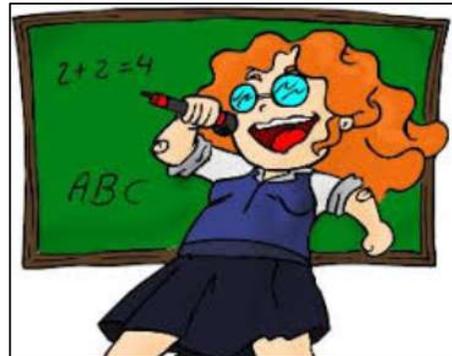
**William Shakespeare**

# Speak Out Challenges

Autumn Term:  
Conflict in Art  
W/B 25<sup>th</sup>  
November



Spring Term:  
Classic Literature -  
Prepared Dramatic  
Reading  
W/B 24<sup>th</sup> February



Summer Term:  
Memorise  
Shakespeare  
W/B 22<sup>nd</sup> June



# Speak Out Strategies

I took a deep breath and cleared my throat.

Make sure you look at it each day so you don't forget your lines.

Stand up confidently and speak clearly

I just pretended that I was still in my room practising

PRACTISE.  
PRACTISE.  
PRACTISE.

Don't leave it until the last minute and try to enjoy it!

I remembered from previous speak outs that I had worried about it beforehand. I tended to be more anxious when presenting but if I didn't think too much about it and made an effort to look forward to it, I felt more confident. Also I remembered that I was speaking in front of friends, most of whom had heard me practising my speak out before, only there were more of them!

# How can you support your child's literacy skills at home?

- Read together and support reading through questioning etc
- Games around the dinner table
- Key words written around the house
- Spelling strategies
- Adapting language for purpose/context
- Planning
- Proof reading
- Re-drafting
- Become members of your local library

The more that you read,  
the more things you will know.  
The more that you learn,  
the more places you'll go.

 Dr. Seuss



... it is an old  
too. That's what makes it a class

SR

# English Clubs

- Debate club Y9/10 (Wednesday lunchtime, room 37)
- Dungeons and Dragons
- KedX
- Kings' Scribe

