# Welcome to the Year 9 Academic Information Evening



#### YEAR 9 KEY DATES 2019 - 2020

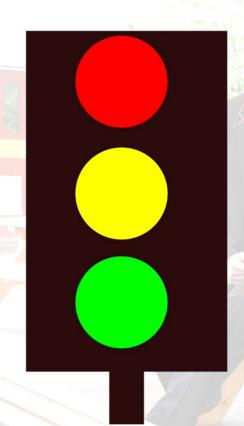
Year 9 Exams
Options Evening
Reports to Parents
Parents Evening
Year 9 Pastoral Evening

06/01/2020 05/02/2020 14/02/2020 26/02/2020 Spring Term TBC



<sup>\*</sup>Dates subject to change

### Impact Of Attendance On Attainment



Less that 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



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**



DON'T GIVE UP 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	30 Minutes per	30 Minutes per
week	week	fortnight
English	Forei <mark>g</mark> n	Geography
Maths	Langua <mark>g</mark> es*	History
Science		Religiou <mark>s</mark> Studies
	9/2////	BEE
		PSHEE
		Technology
		Music
		Drama
	4 1	Art
	101	To the walk of

<sup>\*</sup>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 English - Language GCSE and Literature GCSE Mathematics - Mathematics GCSE Science - Combined Science (Dual Award) GCSE (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) 1/2 Assembly 1/2

### **Looking ahead into Year 9**

Time of Transition, Change and Opportunity

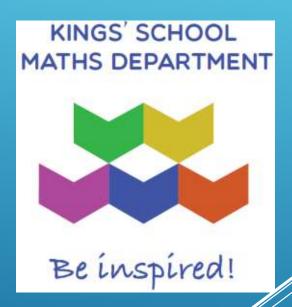
Transition- End of Key Stage 3 – Subjects dropped and Key Stage 4 Options completed.

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

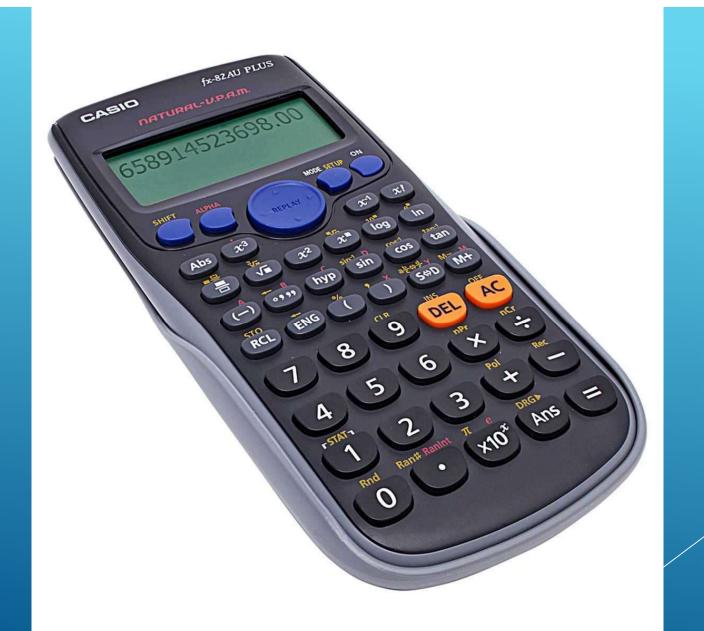
Opportunity- Prefects- Year 10 work experience- we will be the most senior pupils from the Summer 2<sup>nd</sup> Half Term.



### 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

		New KS3 Mastery	Maths Curriculum N				
							_
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	_
Unit	1	2	3	4	5	6	
Year 7	Whole Numbers and Decimals	Measures, Perimeter & Area	Expressions and formulae	Fractions, decimals and percentages	decimals and Shapes		COMPLETED
Unit	10	7 and 8	9	11	12	16	
Year 8	Equations	Mental Calculations and Statistics	Transformations & Scale	Written calculations and indices	Constructions and Pythagoras	Probability	COMPLETED
Unit	15	14	13	Ext			
Year 9	Ratio and Proportion 3D Shapes		Sequences & GCSE Number (Topic 1)	GCSE Algebra (Topic 2). KS3 Mop up and extension	GCSE	GCSE	

#### Mathematics Course Content GCSE Higher

Topic 1 Calculations 1

- · Order positive and negative integers and decimals
- Round to a given number of decimal places or significant figures
- Add, subtract, multiply and divide positive and negative integers and decimals
- Use BIDMAS

Topic 2 Expressions

- Simplify expressions by collecting like terms
- Use formulae
- Know the laws of indices
- · Multiply out a bracket
- · Factorise an expression using brackets
- · Simplify algebraic fractions
- Carry out operations (+,-,x,/) with algebraic fractions

Topic 3 Angles and Polygons

- Use angle facts at a point and with parallel lines (vertically opposite/alternate/corresponding)
- Use bearings
- · Identify congruent shapes
- Identify Similar shapes and use similarity to find lengths and areas
- Know the sum of external angles for any polygon
- Find the internal and external angles in any polygon

#### **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

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.

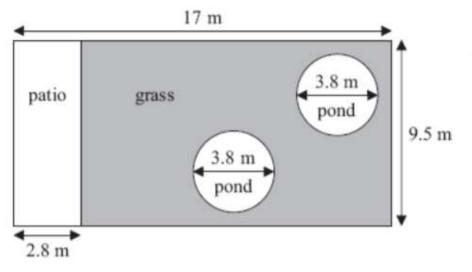


Diagram NOT accurately drawn

Mr Weaver is going to spread fertiliser over all the grass. One box of fertiliser will cover 25 m2 of grass.

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

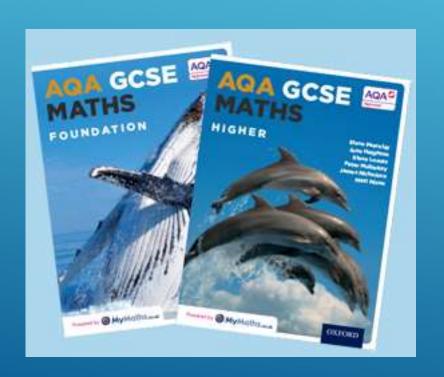
#### THE NEW GCSE .... 1-9

- ► 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 noncalculator 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

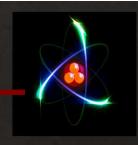


### SO FAR AT KINGS – KS3

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

Year 9 Science Exam - January 2019

### WHAT NEXT FOR YEAR 9?



### 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?

ys³ glucose + oxygen → carbon dioxide + water

 $GCSEC_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O_3$ 

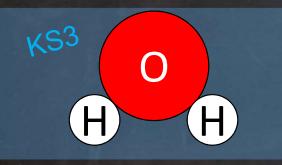
What happens during anaerobic respiration?

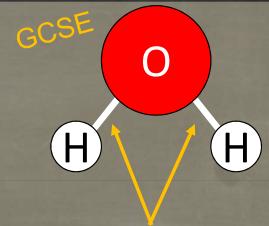
How does the body reduce lactic acid?

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

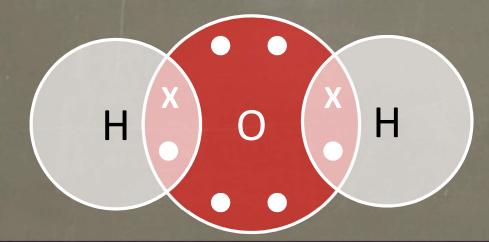
### STEP UP TO GCSE?

#### Water Molecule?



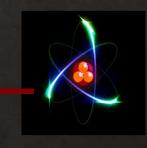






How are the electrons shared between the atoms in a water molecule?

### STEP UP TO GCSE?



#### Arrow fired from a bow?

```
k = F / e v = sqrt [ 2 E<sub>k</sub> / m ]

k = 100 / 0.42 v = sqrt [ 2 x 21 / 0.050 ]

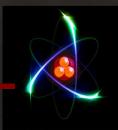
k = 238 N/m v = 29 m/s

E<sub>e</sub> = \frac{1}{2} k e<sup>2</sup>

E<sub>e</sub> = 0.5 x 238 x (0.42)<sup>2</sup>

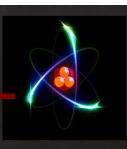
E<sub>e</sub> = 21 J
```

### **THINKING TRIPLE?**



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

## WHAT DO YOU NEED TO DO TRIPLE?



## 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

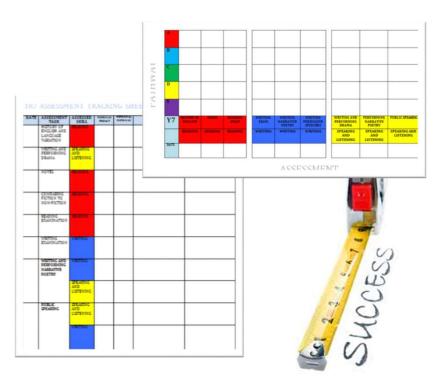


An overview of the year



#### Assessment

 Formal assessment every ½ term – marked using pathways



Thinking

(Think Pink books)

L/Os

starters

mind maps

spidergrams

thoughtshowers

notes

classwork

worksheets

Assessment

(Assessment books)

**ALL** marked

work

homework

peer/self-

assessment

smart targets

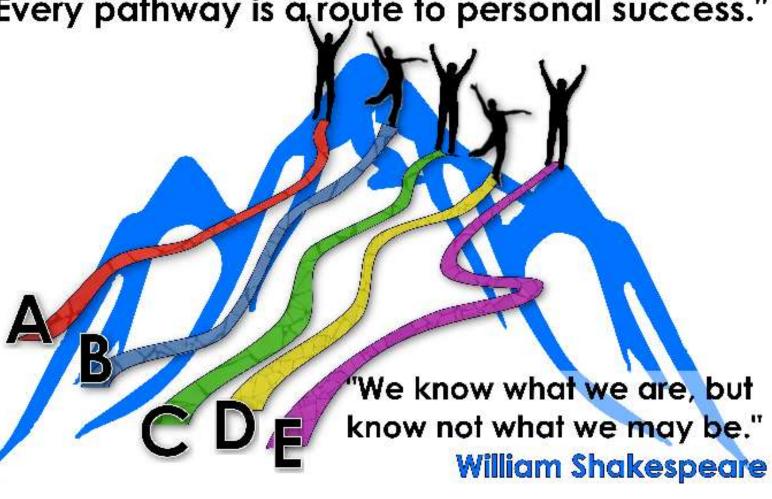
drafts/redrafts

### Assessment Skills

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### KS3 / 4 ENGLISH

"Every pathway is a route to personal success."



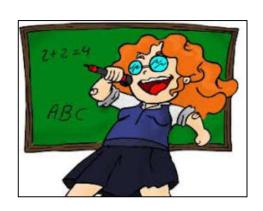
### Speak Out Challenges

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.





### English Clubs

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

