

Y11 Information Evening - Science



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The Science Department

Mrs N Sheriff – Director of science

Mr D Connolly – Head of science

Miss G Barker – Second in science

Mr J Harding – Teacher of science

Mr S Storey – Teacher of science

Miss K Niedz – Teacher of science

Mrs K Javaid – Teacher of science

Mrs H Barlow – 1-2-1 and teacher of science

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Your child will be following one of two routes in science -

- Combined science
- Triple Science

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Combined Science

6 exams, (2 biology, 2 chemistry, 2 physics) each 1hr 15 minutes.

Two science grades will be awarded
e.g. 7/7, 4/3

ALL 6 EXAMS WILL COUNT TOWARDS THE FINAL GRADINGS

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Triple Science

6 exams (2 biology, 2 chemistry, 2 physics) each 1hr 45 minutes.

Separate GCSEs in biology, chemistry and physics will be awarded at the end of this.

The two biology exams will count towards the GCSE in biology etc.

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Summer exam dates –

B1 – 14th May

C1 – 16th May

P1 – 22nd May

B2 – 7th June

C2 – 12th June

P2 – 14th June

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Mock exam dates –

First Mocks begin next week!

B1 – Tuesday 25th September

C1 – Thursday 27th September

P1 – Tuesday 2nd October

This mock is not only important for PS1 predictions and supporting your child but grades achieved will also be used for college application predicted grades.

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Mock exam dates –

Next Mocks in the week beginning 10th December

B2, C2, P2.

This means that your child will have completed mocks in all 6 papers before Christmas.

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Mock exam dates –

Final mock week begins 4th March

Your child will complete all 6 papers during this mock week.

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In order to prepare your child for the final exams in May/June and the mock exams throughout the year, the science department will –

- Teach quality lessons.
- Timely marking and assessment of work/exams
- Lead weekly enrichment sessions every Wednesday from 2.30 – 3.30.
- Provide revision packs.
- Give 1-2-1/small group support where needed.
- Provide director led intervention where needed.
- Support some students during VMG time.

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Revision packs –

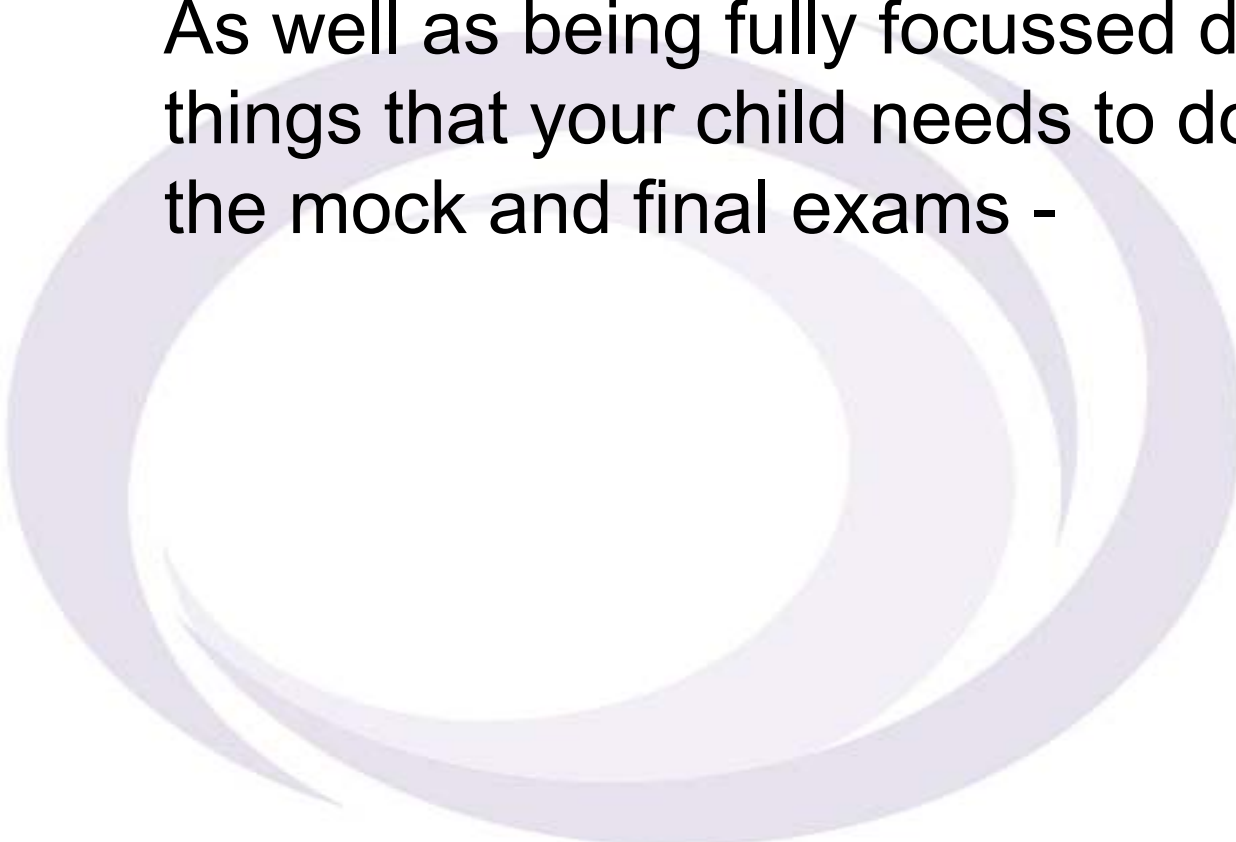
- Revision folders
- Revision/practice booklets
- Exam practice workbooks
- Mock exam book
- **OGAT Revision guides**
- Equation/data sheets
- Revision cards
- 10 minute test books

Triple science pack £10

Combined science pack £7.50

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As well as being fully focussed during lessons, there are a few things that your child needs to do in order to prepare for the mock and final exams -



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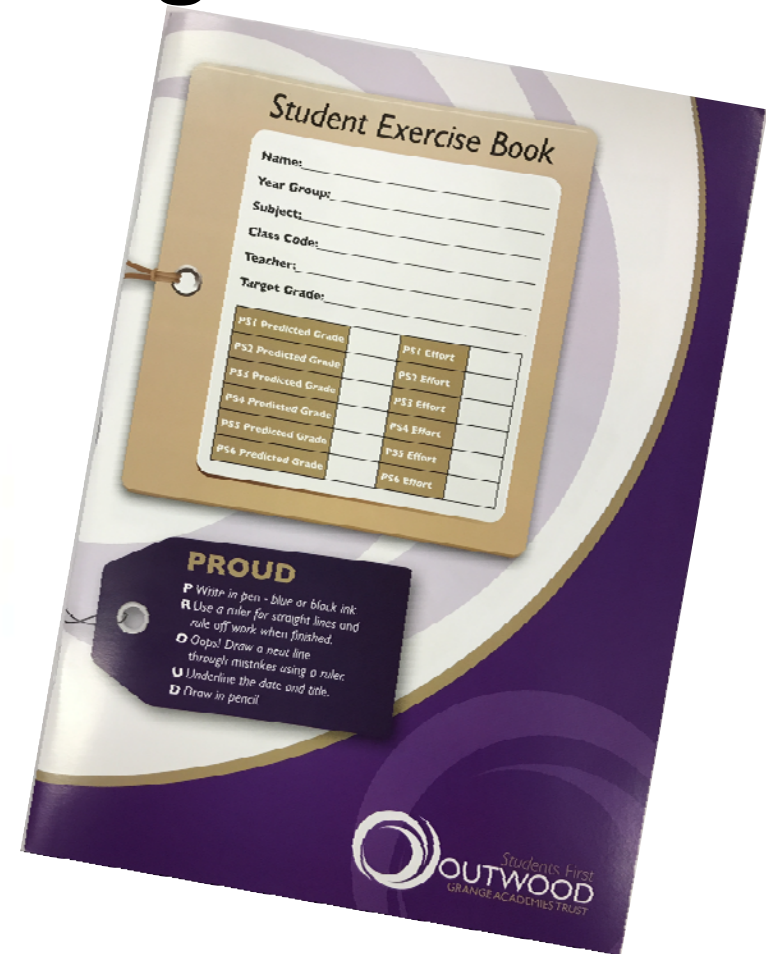
- Learn the 23 equations on page 159 of their planner.

19/09/2018

SCIENCE - PHYSICS EQUATIONS		
GCSE physics equations to learn - these are the equations you will need to recall for the science exams.		
Equation number	Word equation	Symbol equation
1	weight = mass \times gravitational field strength (g)	$W = m g$
2	work done = force \times distance (along the line of action of the force)	$W = F s$
3	force applied to a spring = spring constant \times extension	$F = k e$
4	moment of a force = force \times distance (normal to direction of force)	$M = F d$
5	pressure = $\frac{\text{force normal to a surface}}{\text{area of that surface}}$	$p = \frac{F}{A}$
6	distance travelled = speed \times time	$s = v t$
7	acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$
8	resultant force = mass \times acceleration	$F = m a$
9	momentum = mass \times velocity	$p = m v$
10	kinetic energy = $0.5 \times \text{mass} \times (\text{speed})^2$	$E_k = \frac{1}{2} m v^2$
11	gravitational potential energy = mass \times gravitational field strength (g) \times height	$E_p = m g h$
12	power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
13	power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
14	efficiency = $\frac{\text{useful output energy transfer}}{\text{useful input energy transfer}}$	
15	efficiency = $\frac{\text{useful power output}}{\text{total power output}}$	
16	wave speed = frequency \times wavelength	$v = f \lambda$
17	charge flow = current \times time	$Q = I t$
18	potential difference = current \times resistance	$V = I R$
19	power = potential difference \times current	$P = V I$
20	power = (current) ² \times resistance	$P = I^2 R$
21	energy transferred = power \times time	$E = P t$
22	energy transferred = charge flow \times potential difference	$E = Q V$
23	density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

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- Use their exercise book regularly to review work.
- If your child's teacher does not need it for marking, they should take it home and review their work.

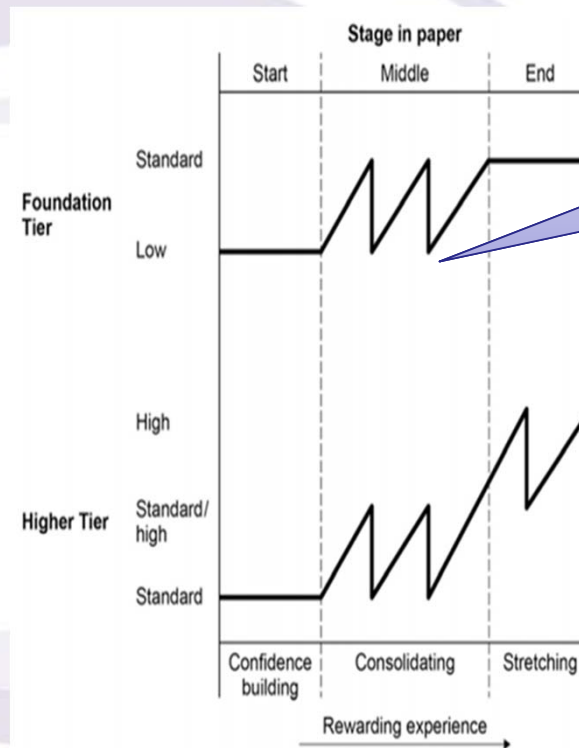


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- Use your revision guides regularly

Practice exam style questions and be resilient!

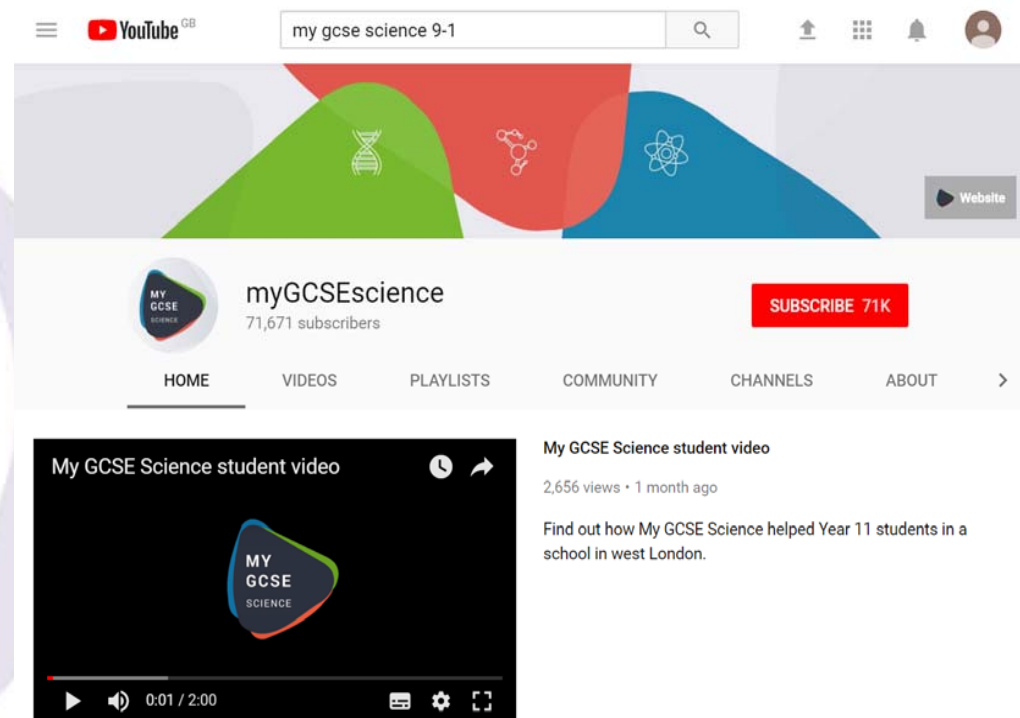
- Exam papers are 'RAMPED'



Keep going even if you can't do a question or part of question- you can go to the bottom of the ramp and try again.

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- Use web based resources for example –
- mygcscience.com
- My GCSE science 1-9 YouTube channel
- OGAT revision resources



www.carlton.outwood.com/revision

Search 'Outwood Grange revision' click on the top link

Power your brain- be good to yourself

Eat
breakfast

8-10 hours
sleep

Exercise
regularly

Keep testing
yourself



Spread out your
revision

Put your
phone away
during
revision

Drink water regularly

Revise in a quiet
environment

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**Attend enrichment
every Wednesday!**

“The definition of insanity is
doing the same thing over and
over and expecting different
results”

Albert Einstein

