Year 11 Science

Helping students succeed

Triple Science

- 3 GCSEs being studied—Biology, Chemistry & Physics

- Exams - All examined in the summer and are each 1hr 45mins

- Revision needs to be thorough and completed regularly

Double Science— Combined Science: Trilogy

- These are 2 separate qualifications, with exams at the end of this year

- Each exam in 1hr 15mins long

- It is combined Science, so all the marks count towards a double grade in Science

- Students need to do well in Biology, Chemistry and Physics

Revision Sources

Use specifications and specimen papers -

http://www.aqa.org.uk/subjects/science/gcse

Textbooks—

www.kerboodle.com

Explanation—

Revision guides

Exam Success

Make sure students revise.

AQA revision guides.

Complete practice questions

Exams

- All exams are taken at the end of year 11, so thorough revision is vital

- Equations must be learnt

- More mathematical content—30% in Physics, 20% in Chemistry and 10% in Biology

- Practical skills theory is assessed in these

EQUIPMENT

Black pen

Pencil

Pencil Sharpener

Ruler

Rubber

Scientific Calculator

Protractor

Exam	Date	Time
Biology 1	15/05/2018	pm
Biology 2	11/06/2018	am
Chemistry 1	17/05/2018	am
Chemistry 2	13/06/2018	am
Physics 1	23/05/2018	pm
Physics 2	15/06/2018	am

ANY QUESTIONS?

Please e-mail us at: mi.harris@tavistockcollege.org

Equations to learn

Equations required for Higher Tier papers only are indicated by HT in the left hand column.

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

Note:

Equations 4 and 5 are for Triple students only