

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>

Online revision—

GCSEPod

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	14/5/19	pm
Biology 2	7/6/19	pm
Chemistry 1	16/5/19	am
Chemistry 2	12/6/19	am
Physics 1	22/5/19	pm
Physics 2	14/6/19	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 = $\frac{\text{force normal to a surface}}{\text{area of that surface}}$	$p = \frac{F}{A}$
6	distance travelled = speed × time	$s = v t$
7	acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$
8	resultant force = mass × acceleration	$F = m a$
9 HT	momentum = mass × 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 × gravitational field strength (g) × 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 = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
15	efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
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 = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

Note:

Equations 4 and 5 are for Triple students only