Year 11

Please complete revision using the checklists on show my homework as well as websites listed below

Key dates (at time of writing 17/03/20)

- **12 May 2020 -** Exam for GCSE Combined and separate Biology Paper 1 Start time: pm

  14 May 2020 - Exam for GCSE Combined and separate Chemistry Paper 1 Start time: am

  20 May 2020 - Exam for GCSE Combined and separate Physics Paper 1 Start time: pm

- **Don't forget the equations to learn!** They are in the back of your exercise book

Separate science

Please note that a search of "AQA separate science/biology/chemistry/physics" will yield more resources

Past papers
https://www.aqa.org.uk/subjects/science/gcse/biology-8461/assessment-resources
https://www.aqa.org.uk/subjects/science/gcse/chemistry-8462/assessment-resources
https://www.aqa.org.uk/subjects/science/gcse/physics-8463/assessment-resources

Biology
https://www.bbc.co.uk/bitesize/examspecs/zpgcbk7
https://www.youtube.com/watch?v=mKYQ-K23Mr4
https://www.youtube.com/watch?v=Uqti-xPnT-8
https://www.youtube.com/watch?v=HBZcpzr5B2g&list=PL2HrnZel5wZwI-OJJN3kpZp-2uVQgHkm_
Required practicals - https://www.youtube.com/watch?v=jBVxo5T-ZQM&list=PL9IouNCPbCxU6sNg_x5rvlsLwA6gNCVzj
https://www.youtube.com/watch?v=W2fSySsNxUw

Chemistry
https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb
https://www.youtube.com/watch?v=L3NEXz9iryc&list=PL9IouNCPbCxULWXCO9jt0PsuAbxYpw2_1
https://www.youtube.com/watch?v=MpQ-3YAwNhI
https://www.youtube.com/watch?v=_HJu8WTtZJU
Required practicals
https://www.youtube.com/watch?v=9GH95172Js8&list=PLvfaLv9hZn6fs7hUgULp_29ZBh2ZYJ76m
https://www.youtube.com/watch?v=JjrIcr05yHY

Physics
https://www.bbc.co.uk/bitesize/examspecs/zsc9rdm
https://www.youtube.com/watch?v=xtw-Z0nllA4
https://www.youtube.com/watch?v=X1aMXCr75Kw
https://www.youtube.com/watch?v=P1lSWWUkMdQ&list=PL9IouNCPbCxUrQkFLoPwB67nDbhw2NfAO
Required practicals
https://www.youtube.com/watch?v=YsZeZotYVag
https://www.youtube.com/watch?v=1REmiKp1GgU
https://www.youtube.com/watch?v=jW2ANwnfsUY&list=PLM7lGCvspoEyIf73YJHl5zzFTo0xOus6U

Combined science - (AQA combined science Trilogy)

Please note that a search of “AQA combined trilogy science/biology/chemistry/physics” will yield more resources

Past papers - https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources

Biology
https://www.bbc.co.uk/bitesize/examspecs/z8r997h
https://www.youtube.com/watch?v=mKYQ-K23Mr4
https://www.youtube.com/watch?v=Uqti-xPnT-8
https://www.youtube.com/watch?v=HBZcpzr5B2g&list=PL2HrnZel5wZwI-OJJN3kpZp-2uVQgHkm_
Required practicals - https://www.youtube.com/watch?v=jBVxo5T-ZQM&list=PL9IouNCPbCxU6sNg_x5rvlsLwA6gNCVzj
https://www.youtube.com/watch?v=W2fSySsNxUw

Chemistry
https://www.bbc.co.uk/bitesize/examspecs/z8r997h
https://www.youtube.com/watch?v=L3NEXz9iryc&list=PL9IouNCPbCxULWXCO9jt0PsuAbxYpw2_1
https://www.youtube.com/watch?v=MpQ-3YAwNhI
https://www.youtube.com/watch?v=_HJu8WTtZJU
Required practicals
https://www.youtube.com/watch?v=9GH95172Js8&list=PLvfaLv9hZn6fs7hUgULp_29ZBh2ZYJ76m
https://www.youtube.com/watch?v=JjrIcr05yHY

Physics
https://www.bbc.co.uk/bitesize/examspecs/z8r997h
https://www.youtube.com/watch?v=xtw-Z0nllA4
https://www.youtube.com/watch?v=X1aMXCr75Kw
https://www.youtube.com/watch?v=P1lSWWUkMdQ&list=PL9IouNCPbCxUrQkFLoPwB67nDbhw2NfAO
Required practicals
https://www.youtube.com/watch?v=YsZeZotYVag
https://www.youtube.com/watch?v=1REmiKp1GgU
https://www.youtube.com/watch?v=jW2ANwnfsUY&list=PLM7lGCvspoEyIf73YJHl5zzFTo0xOus6U

Equation	Terms
$W = m\,g$	W = Weight (N) m = Mass (kg) g = Gravitational field strength (N/kg)
$F = k\,e$	F = Force (N) k = Spring Constant (N/m) e = Extension (m)
$M = F\,d$	M = Moment (Nm) F = Force (N) d = Perpendicular Distance (m)
$p = \frac{F}{A}$	p = Pressure (N/m²) F = Force (N) A = Cross-Sectional Area (m²)
$s = v\,t$	s = Displacement (m) v = Velocity (m/s) t = Time (s)
$a = \frac{\Delta v}{t}$	a = Acceleration (m/s²) Δv = Change in Velocity (m/s) t = Time (s)
$F = m\,a$	F = Force (N) m = Mass (kg) a = Acceleration (m/s²)
$p = m\,v$	p = Momentum (kgm/s) m = Mass (kg) V = Velocity (m/s)
$E_k = \frac{1}{2}mv^2$	E_k = Kinetic Energy (J) m = Mass (kg) v = Velocity (m/s)
$E_p = m\,g\,h$	E_p = Gravitational Potential Energy (J) m = Mass (kg) g = Gravitational Field Strength (N/kg) h = Height (m)
$P = \frac{W}{t}$	P = Power (W) W = Work Done (J) t = Time (s)

Equation	Terms
$\text{Efficiency} = \frac{\text{useful energy/power out}}{\text{total energy/power in}}$	
$v = f\,\lambda$	V = Velocity (m/s) f = Frequency (Hz) λ = Wavelength (m)
$Q = I\,t$	Q = Charge (C) I = Current (A) t = Time (s)
$V = I\,R$	V = Potential Difference (V) I = Current (A) R = Resistance (Ω)
$P = I\,V$	P = Power (W) I = Current (A) V = Potential Difference (V)
$R_{total} = R_1 + R_2$	R = Resistance (Ω)
$P = \frac{E}{t}$	P = Power (W) E = Energy (J) t = Time (s) **OR** P = Power (kW) E = Energy (kWh) t = Time (hrs)
$E = Q\,V$	E = Energy (J) Q = Charge (C) V = Potential Difference (V)
$P = I^2\,R$	P = Power (W) I = Current (A) R = Resistance (Ω)
$\rho = \frac{m}{v}$	ρ = Density (kg/m³) m = Mass (kg) v = Volume (m³)

REMEMBER:

1. You will often have to convert units that you are given first
2. All of these equations can be most easily rearranged using a triangle method