



## ASSESSMENT INFORMATION FOR STUDENTS – SUMMER 2021

### SUBJECT: PHYSICS

### YEAR GROUP: 13

#### **Y13 Physics Portfolio assessment programme**

In Physics your portfolio of evidence will contain your exam from October of year 13, your mock exam from March 2021 and 5 tests as detailed below that will take place after Easter.

#### **Tests after Easter:**

**Content/skills to revise for each of the tests:** units (base and derived), unit prefixes, uncertainties, relating equations to graphs with  $y=mx+c$ , planning experiments.

#### **Content specific to each test:**

<b>Test 1 Paper 1 Friday 23/4/21</b>  Objects in freefall, energy conservation, work done, projectile motion, conservation of momentum, elastic and inelastic collisions, specific heat capacity, internal energy, kinetic theory of gases included root mean square speed.	<b>Test 2 Friday 30/4/21</b>  motion graphs, Young's modulus, Kepler's laws, gravitational fields, moments, torque of couples, Archimedes' principle, pressure in fluids, simple harmonic motion, free fall and terminal velocity.
<b>Test 3 Paper 2 Friday 7/5/21</b>  Drift velocity, resistance in parallel, Kirchhoff's rules, Potential dividers, Electromagnetic waves, polarisation, charging capacitors, waves {speed, time period, refraction, phase difference, intensity and power, principle of superposition, double (Young's) slits.	<b>Test 4 Friday 14/5/21</b>  Photoelectric effect, wave particle duality, magnetic fields, electric field, electric potential, emf, N-Z graphs and radioactive decay, nuclear fission.
<b>Test 5 From Unified. Friday 21/5/21</b>  Electric fields-Coulomb force, moments, oscillations, alpha particle scattering experiment, momentum, energy conservation.	

The assessments will have similar structure with short and longer answer questions.

There will be mathematical components in the assessments and reference to required practical.