**Academic Year 2021 – 2022**

**Science Department Curriculum**

 **Remote Learning Plan – Schemes of Learning Overview**

**KS3 Science**

Students will follow the sequence of the online textbook from AQA answering questions as they go. Each lesson they will be assigned a task for the pages used from that lesson.

BBC Bitesize for KS3 Science has been linked. Oak National Academy has also been linked, which has video lessons and assessments for reviewing student knowledge.

**Year 8:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Term** | **Unit** | **Core Content** | **Links** |
| **1** | Physics: ENERGY  | Work done, thermal energy, energy transfers, insulation | AQA Activate 2 P46 – P54<https://www.bbc.co.uk/bitesize/topics/zc3g87h> <https://classroom.thenational.academy/units/energy-0b08>  |
| Chemistry: MATTER | Periodic Table, elements and compounds, polymers and ceramics | AQA Activate 2 P68- 86<https://www.bbc.co.uk/bitesize/topics/zstp34j> <https://classroom.thenational.academy/units/atoms-and-the-periodic-table-68d3>  |
| **2** | Chemistry: EARTH | Earth’s atmosphere, carbon cycle, human impact on resources, extraction of materials | AQA Activate 2 P108- P118<https://www.bbc.co.uk/bitesize/topics/z3fv4wx> <https://classroom.thenational.academy/units/light-and-space-fa61> |
| Biology: ECOSYSTEMS | Photosynthesis, leaves, fermentation, respiration, exercise | AQA Activate 2 P122- P 142<https://www.bbc.co.uk/bitesize/topics/zvrrd2p> <https://classroom.thenational.academy/units/plants-and-photosynthesis-54c3>  |
| **3** | Biology: ORGANISATION | Breathing system, lung volume, digestive system, healthy diets, disease | AQA Activate 2 P122- P 142<https://www.bbc.co.uk/bitesize/topics/zf339j6> <https://classroom.thenational.academy/units/digestion-and-nutrition-9fd9>  |
| Physics: FORCES | Contact forces, Hooke’s Law, pressure, density | AQA Activate 2 P20- P32<https://www.bbc.co.uk/bitesize/topics/z4brd2p> <https://classroom.thenational.academy/units/forces-in-action-543b>  |
| **4** | Physics: WAVES | Sound waves, light waves, spectrum of light, uses of waves | AQA Activate 2 P68-86<https://www.bbc.co.uk/bitesize/topics/zw982hv> <https://classroom.thenational.academy/units/light-and-space-fa61><https://classroom.thenational.academy/units/sound-waves-0e79>  |
| Physics: MAGNETISM | Magnetic fields, magnets, electromagnets, EM spectrum | AQA Activate 2 P36-42<https://www.bbc.co.uk/bitesize/topics/zrvbkqt> <https://classroom.thenational.academy/units/electricity-and-magnetism-ab64>  |
| **5** | Chemistry: REACTIONS | Endothermic and exothermic reactions, catalysts, combustion, fuels, thermal decomposition | AQA Activate 2 P90-104<https://www.bbc.co.uk/bitesize/topics/zypsgk7> <https://classroom.thenational.academy/units/chemical-reactions-5ffa>  |
| KS3 Assessment Week | Assessment on all Units covered in year 8 so far |
| **6** | Biology: GENES | Genetics, DNA, natural selection, evolution, extinction | AQA Activate 2 P 164- 180<https://www.bbc.co.uk/bitesize/topics/zpffr82> <https://classroom.thenational.academy/units/reproduction-and-variation-f60f>  |