|  |
| --- |
| **Core Knowledge Map** |
| Subject: Physics 3 | Year: 8 | Term: Autumn |
| What are we learning? |
| How different types of wave behave.How humans see and hear.What the practical uses of ultrasound areHow to build a range of electrical circuits and measure current and voltageKnowing how to troubleshoot when circuits are not workingHow to describe how light waves behave |
| How will I be assessed  |
| In class by your teacherMid topic long answer questionsEnd of cycle test |
| Big questions: |
| What is an electrical circuit? (parallel, series)How does a current flow in a circuit ?What is a wave? ( types of wave eg Sound – longitudinal and light is transverse)How do light waves behave?How do humans see and hear? |
| How does this build on previous learning? | How will this link to my future learning? |
| Y7 Energy stores and transfersY6 Light – how light moves  | KS4 Calculating wave speedElectromagnetic waves and spectrumElectricity in the home |
| Core knowledge: | Key vocabulary: |
| Be able to recognise longitudinal and transverse waves.Measure angles of reflected and refracted waves.Construct and draw circuits using standardised symbols Measure voltage and current in different parts of a circuit. | Transverse LongitudinalRefractionReflectionOpaqueTranslucent TransparentTransmitted.Potential differenceCurrentResistanceopaque |
| Need more help? |
|  |