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| **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 are  How to build a range of electrical circuits and measure current and voltage  Knowing how to troubleshoot when circuits are not working  How to describe how light waves behave | | | |
| How will I be assessed | | | |
| In class by your teacher  Mid topic long answer questions  End 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 transfers  Y6 Light – how light moves | | KS4 Calculating wave speed  Electromagnetic waves and spectrum  Electricity 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  Longitudinal  Refraction  Reflection  Opaque  Translucent  Transparent  Transmitted.  Potential difference  Current  Resistance  opaque | |
| Need more help? | | | |
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