 **Trevose sequence of learning – DT Year B**

**Autumn term – Electrical systems: torches**

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| Unit outcomes |
| Pupils who are **secure** will be able to:* Identify electrical products and explain why they are useful.
* Help to make a working switch.
* Identify the features of a torch and how it works.
* Describe what makes a torch successful.
* Create suitable designs that fit the success criteria and their own design criteria.
* Create a functioning torch with a switch according to their design criteria.
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| Key vocabulary |
| batterybulbbuzzerconductorcircuitcircuit diagramelectricityinsulator | series circuitswitchcomponentdesigndesign criteriadiagramevaluationLED | modelshapetarget audienceinputrecyclablethemeaesthetics | assembleequipmentingredientspackagingpropertiessketchtest |
| Lesson 1 | Lesson 2 | Lesson 3 | Lesson 4 |
|  [Lesson 1: Electrical products](https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/electrical-systems-torches/lesson-1-electrical-products-2/) |  [Lesson 2: Evaluating torches](https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/electrical-systems-torches/lesson-2-evaluating-torches/) |  [Lesson 3: Torch design](https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/electrical-systems-torches/lesson-3-torch-design/) |  [Lesson 4: Torch assembly](https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/electrical-systems-torches/lesson-4-torch-assembly/) |

**Summer term – Mechanical systems: slingshot car**



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| Lesson 1 | Lesson 2 | Lesson 3 | Lesson 4 |
|  [Lesson 1: Chassis and launch mechanism](https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/mechanical-systems-making-a-slingshot-car/lesson-1-chassis-and-launch-mechanism/) |  [Lesson 2: Designing the car body](https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/mechanical-systems-making-a-slingshot-car/lesson-2-designing-the-car-body/) |  [Lesson 3: Making the car body](https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/mechanical-systems-making-a-slingshot-car/lesson-3-making-the-car-body/) |  [Lesson 4: Assembly and testing](https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/mechanical-systems-making-a-slingshot-car/lesson-4-assembly-and-testing/) |