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| **Electrical and Mechanical Components** | **Design Skills** | | |
| * Can they use different kinds of circuit in their product? * Can they think of ways in which adding a circuit would improve their product? * Can they incorporate a switch into their product? * Can they refine their product after testing it? | Developing, planning and communicating ideas | Working with tools, equipment, materials and components to make quality products | Evaluating processes and products |
| * Can they work within constraints? * Can they follow and refine their plan if necessary? * Can they justify their plan to someone else? | * Can they use tools and materials precisely? * Do they change the way they are working if needed? | * How well do they test and evaluate their final product? * Is it fit for purpose? * What would improve it? * Would different resources have improved their product? * Would they need more or different information to make it even better? * Does their product meet all design criteria? * Did they consider the use of the product when selecting materials? |