Mechanical Systems - Pop-up book

Previous Learning: Designing plans using a range of mechanisms.

Next Steps: to use electrical circuits within designs.

| Aesthetic | How an object or product looks. |
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| CAD | Computer-aided-design. To use the computer to design a product, diagram or drawing. |
| Caption | A short piece of writing under a picture that describes or explains the picture. |
| Design | To make, draw or write plans for something. |
| Design brief | A description of what you are going to design and make and how it will work. |
| Design criteria | To help designers focus their ideas and test the success of them. |
| Exploded-diagram | A diagram which shows all of the parts of a product, including the internal and external parts. |
| Function | How an object or product operates or works. |
| Input | Input is the motion used to start a mechanism. |
| Linkage | A set of bars linked together to form a mechanism. |
| Mechanism | A system of parts working together. |
| Motion | The movement an object makes when controlled by an input or output (e.g. left, right, up, down). |
| Output | Output is the motion that happens as a result of starting the input. |
| Pivots | A shaft or pin on which something turns. |
| Prototype | A simple model that lets you test out your idea, showing how it will look and work. |
| Sliders | A part of a mechanism which allows an object to move from side-to-side (e.g. left-to-right). |
| Structure | Something which stands, usually on its own. |
| Template | A stencil made of metal, plastic, or paper, used for making many copies of a shape or to help cut material accurately (e.g. biscuit cutter). |

Input is the motion used to start a mechanism. Output is the motion that happens as a result of the input.



Think of a see-saw, when you sit on your side of the see-saw (input) your friend goes up on the other side. (output)

Did you know?



Did you know that the first children's pop-up books were invented in the 1700s? That's over 300 years ago! Lothar Meggendorfer was a well-known pop-up author in the 1800s.