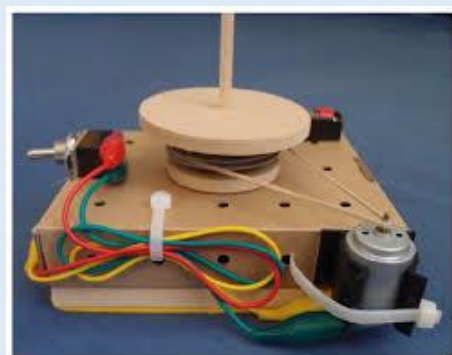
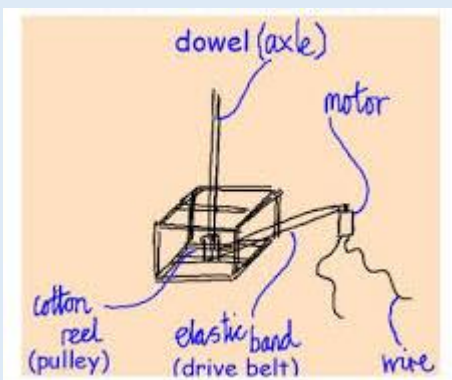
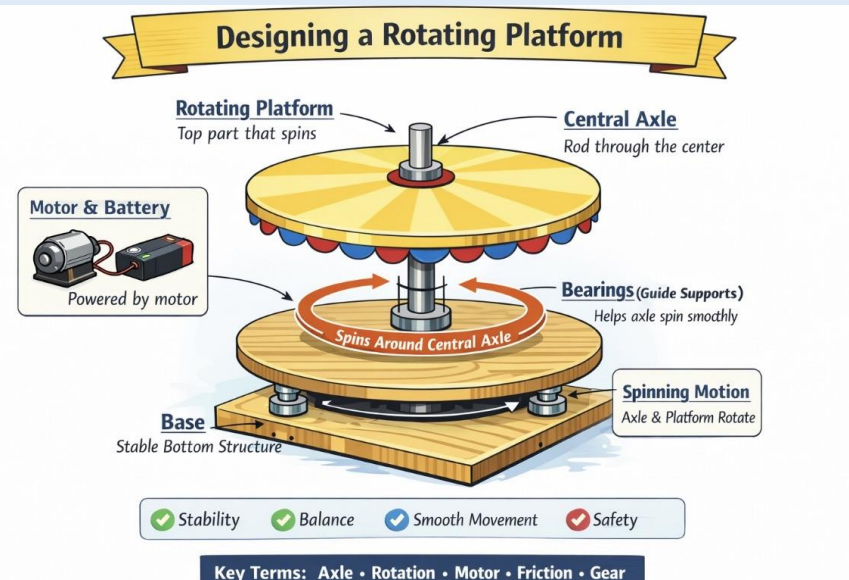


Key Knowledge

Rotating Platform

Fashion runways are platforms used to show clothes. In the past, they were simple paths for models to walk on. We will be designing and making a prototype of a rotating platform to test how it moves and how it could help stop slips and falls.

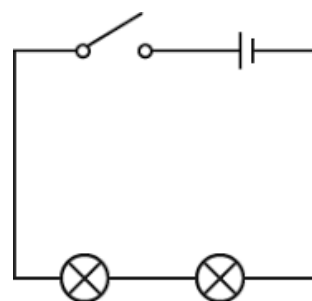


How it works:

- A platform spins around a central axis (axle)
- The axle is a rod that goes through the centre and allow for rotation
- A base will be the structure that holds everything stable
- Bearings will help the axle turn smoothly
- It will be powered by a motor and battery

Design considerations:

- Stability
- Balance
- Strength
- Movement
- Safety



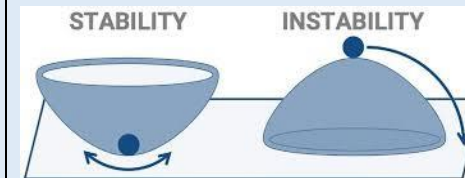
Key Vocabulary

Digital design



Graphic design made specifically to be used on computers.

Stability



Stability refers to the ability of a structure to remain firmly in place, upright, and balanced without tipping over, wobbling, or falling.

Reinforce



To reinforce means to make a structure or material stronger, more stable, or more rigid by adding extra support, layers, or materials.

Aesthetic



Aesthetic refers to how a product looks, feels, smells, or sounds, and how these sensory elements make it visually pleasing or appealing to the user.

Motor



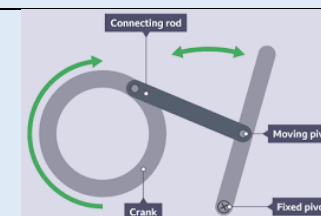
A machine, especially one powered by electricity or internal combustion, that supplies motive power for a vehicle or for another device with moving parts.

Functionality



Functionality refers to how well a product works to fulfil its intended purpose and meet the needs of the user.

Rotary Motion



Rotary motion is defined as movement in a complete circle, such as a wheel turning.

Design

Create

Structure

Mechanism

Evaluate