

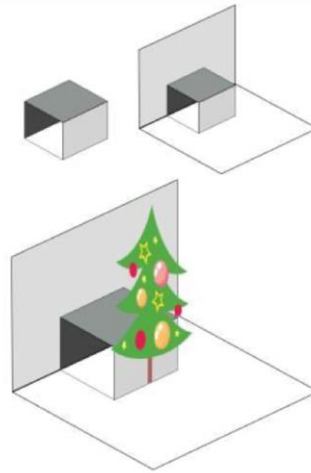
## Vocabulary

**Mechanism:** A device used to create movement in a product. **Lever:** A rigid bar which moves around a pivot. **Linkages:** strips that join one or more levers. **Slot:** the hole through which a lever is placed. **Guide:** A short card strip used to keep lever and linkage mechanisms in place. **Loose Pivot:** A fastener that joins strips together. **Fixed Pivot:** A fastener that joins strips onto the backing. **System:** A set of related parts or components use to create an outcome.

## Key Ideas

- When working with thin card, a hole can be made for a fastener by pushing a pencil through the card into a piece of blu-tack on the other side.
- A picture can be drawn and cut out from another piece of card and glued onto the output levers.
- Windows can be cut out of the backing sheet or extra pieces added so that the picture on the output lever is hidden and then revealed.
- Guides/bridges can be made using strips of card fixed with masking tape.

## Pop up Mechanisms

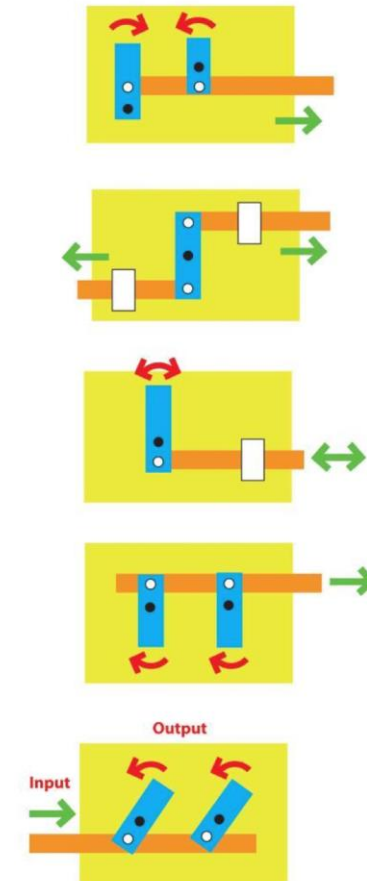


## Movement

- Linear - in a straight line
- ↕ Reciprocating - backwards and forwards in a straight line e.g. a slider
- ↻ Rotary - round and round e.g. a wheel, cam, pulley, gear wheel
- ↷ Oscillating - backwards and forwards in an arc e.g. a lever

## Levers and Linkages

- Fixed pivot
- Loose pivot



When you push the card strip (input movement), the