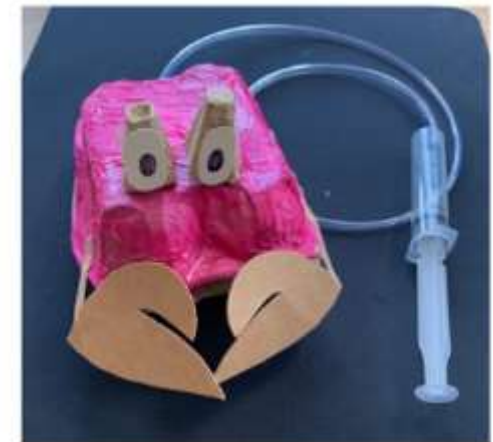
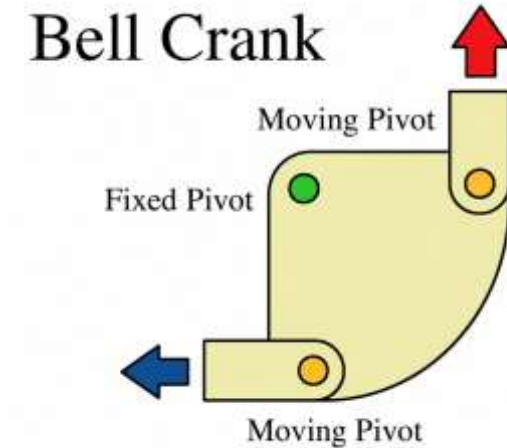
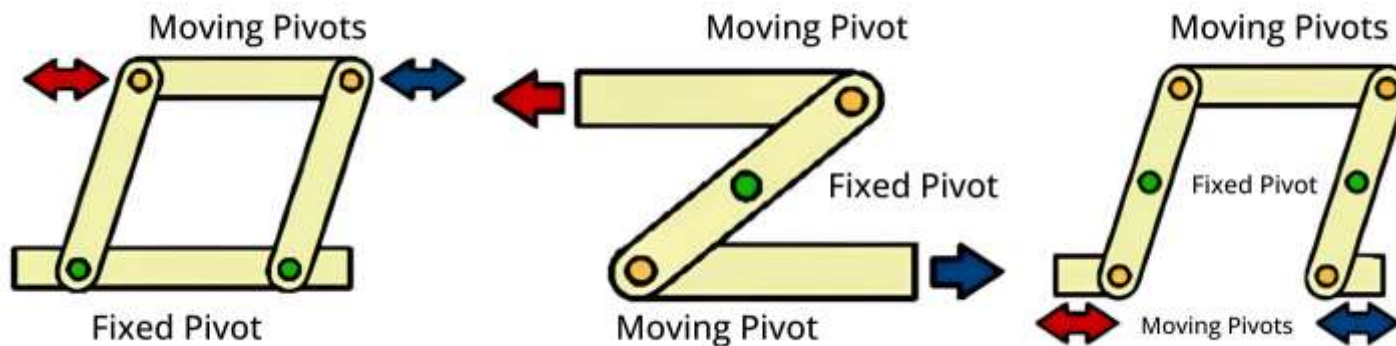


Year 3 – Autumn - How can I use different mechanical systems to make a moving product?

What I need to know by the end of this unit:

- Designers are currently designing mechanisms to change the world.
- A fixed pivot is a point that stays in one place while another part moves around it.
- A moving pivot is a point that changes position as the mechanism moves.
- Linkages and pneumatic systems can be combined.
- A lever moves around a pivot to help lift, push or pull something e.g. scissors.
- A linkage is two or more levers joined together to make something move. E.g. a grabber tool.
- A pneumatic system uses air to make something move e.g. bus doors.
- A prototype is a first model of something used to test ideas.
- The design process includes researching, designing, making and evaluating.



Key Vocabulary – Top 5!

- **component** – one part of something bigger.
- **system** – a group of connected parts that work together to do a job or make something happen.
- **function** – what something is made to do or the job it does.
- **assemble** – to put different parts together to make something.
- **alternative** – another option or choice.

