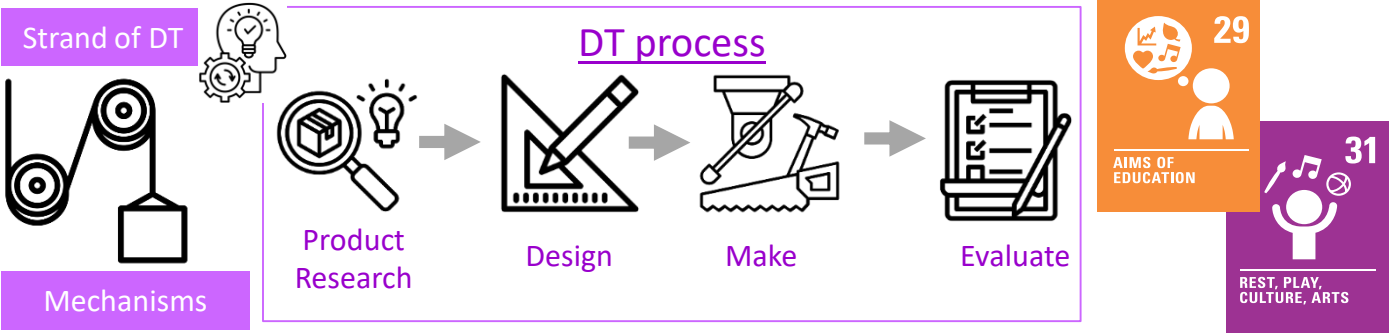



Design Brief: To make a moving picture book with a slider, lever or wheel mechanism for a year 1 child at Christmas..




Vocabulary	
mechanism	a device which makes things move
slider	a mechanism that moves from right and left, and vertically or horizontally
lever	a mechanism that makes a rocking movement vertically and horizontally
pivot	movement around a fixed point
wheel mechanism	rotates on an axis
axis	a centre point that something spins or moves around
rotate	to move or turn in a circle
horizontal	going side-to-side, like the horizon
vertical	goes up and down

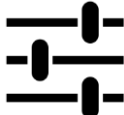
What?




- A **design brief** is an outline what the **purpose** of the project is and **instructions** for what is required.
- A **mechanism** is a device which makes things **move**.
- Movement can be **vertical**, **horizontal**, **left**, **right**.
- A **slider** is a mechanism that **moves** from **right** and **left**, and **vertically** or **horizontally**.
- A **lever** is a mechanism that makes a **rocking movement** vertically and horizontally.
- A **pivot** is a movement around a **fixed point**.




- A **slider** is a mechanism that moves from **right** and **left**, and **vertically** or **horizontally**.
- A **pivot** is a movement around a **fixed point**.
- A **slit** must be used to allow the slider to move **side to side** or **up and down**.




- The direction of movement in a sliding mechanism can be left, right, vertical or horizontal.
- There are levers all around us. Such as, slider buttons on a music deck, slider light switch, drawers slide in and out, sliding pictures in a moving children’s book.



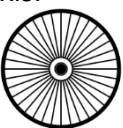
- A **lever** is a mechanism that makes a **rocking movement** vertically and horizontally.
- A **pivot** is the **fixed point** which stays in place as it moves.
- A **pivot** can be made using a split pin as a point for the lever to **rock** up and down e.g. a seesaw




- Levers and pivots are found in everyday life e.g. seesaw, scissors, peg, balance scales etc.




- A **wheel** mechanism **rotates** on an axis.
- An **axis** is a **centre point** that something spins or moves around.



- Rotate** means to move or turn in a **circle**.



- A **design** is a **plan** or **outline** showing **how** something is to be **built** or **carried out**.
- Design criteria are the **precise goals** that a project must **achieve** in order to be successful.



- Designs** are used in the **making stage** to create the final product.
- Safety measures** must be followed when using **sharp equipment**.


Design criteria:

- It has at least one moving part.
- It has a slider, lever or a wheel mechanism.
- It is suitable for a Year 1 child (a friend).
- It follows the theme of Christmas.

Skills - cutting and using split pins

Finished product





- Designers **evaluate** their finished products in order to test whether they **work well** and if the design can be **corrected** or **improved**.
- An evaluation involves judging your final product against the design criteria set out before making.