



BE: RESPECTFUL

**BE: FORGIVING** 

BE: KIND

### **Year 1- Autumn**

## **DT Knowledge Organiser**

Links to other year groups:

Year 4 Summer: Design and make a moving storybook

Mechanical Devices/New Materials-Year 10 Spring

Year 8 Design Movement / Modelling Project Prototypes: why, consumer, manufacturer Design movements - prep; practical

skills: hand tools intro Materials knowledge - Styrofoam; use of modelling materials Finishes

# Key Vocabulary & Skills:

design

criteria

model

plan

communicate

template

strength

materials

cutting

textiles

stronger

stiffer

joining

slider

evaluate

### **Real World Examples:**





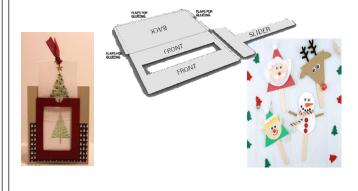
Christmas cards and books

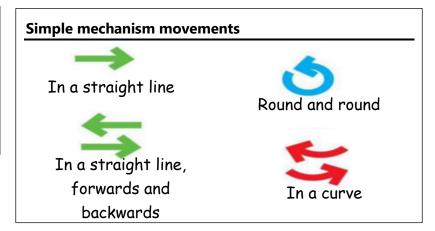
#### **Key Info:**

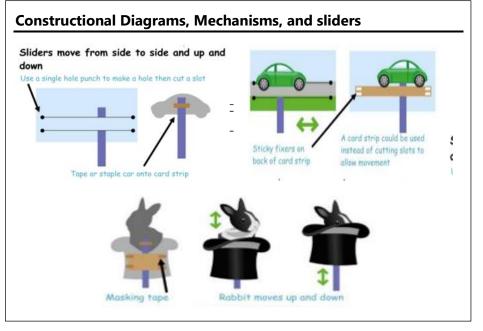
Can I design a purposeful, functional & appealing product?

Can I talk about it, draw it and use templates?

Can I select from and use a range of tools and equipment, including: cutting, shaping, joining and finishing and make them stronger, stiffer and more stable?







Lesson 1	Investigating sliding mechanisms in books and cards.
Lesson2	Create a simple slider using paper: Evaluate what is wrong with his product? How could it be improved. (use of a stronger material to make it stiffer.
Lesson 3	To make a up and down slider and evaluate what length the lollipop stick/card needs to be for the slider to work effectively.
Lesson 4	Introduce the design task and criteria. Plan their product.
L.esson 5	Final piece: create their own sliding product.
Lesson 6	Evaluate their product.