














# Y1 Design Technology – Healthy Eating

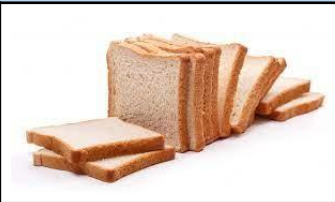





## Design Brief – Making a Healthy Lunch for a Class Picnic

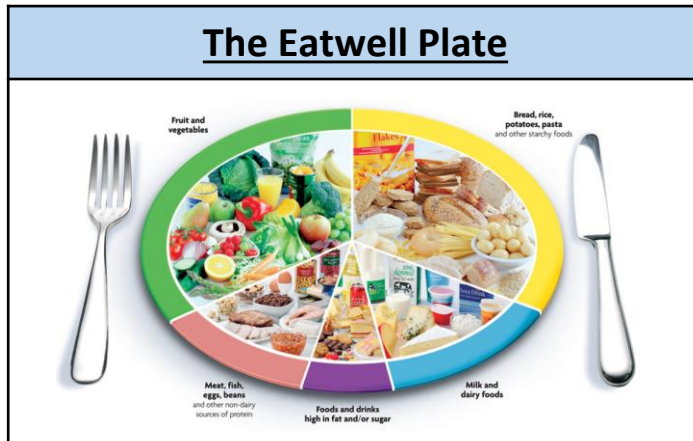
<u>Essential Knowledge</u>		<u>Key Vocabulary</u>	
<p><b>What are the main food groups?</b> There are 5 main food groups. The Eatwell Plate shows us how much of each food group we should be eating.</p>	<b>grain</b>		<b>equipment</b> 
<p><b>Where does our food come from?</b> Most of the food we eat comes from either plants or animals. Plants, like fruits and vegetables, and animals, like cows and chickens, come from farms. Some food also comes from the sea, like fish.</p>	<b>dairy</b>		<b>slicing or cutting</b> 
<p><b>What foods are considered healthy and unhealthy?</b> We plan meals that we want to eat by using the Eatwell Plate. Eating a range of different foods is healthy. It is important to have a healthy balance of each food group.</p>	<b>utensils</b>		<b>spreading</b> 
<u>Aspirational Knowledge and Skills</u>		<u>The Eatwell Plate</u>	
<p><b>How do you plan a healthy lunch?</b> We can plan a lunch that includes all the 5 food groups. We can draw and label a plan to show the balanced lunch.</p>	<p>To make a healthy sandwich using utensils independently.</p> <p>To understand that eating healthy food makes you feel better.</p>		
<p><b>How do you make a healthy lunch?</b> We use utensils and equipment to prepare food and make it nice to eat. We use the equipment in a safe way so that we do not get hurt.</p>	 		<h3 style="text-align: center; background-color: #ADD8E6; margin: 0;">Project Process</h3> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Explore         </div> <div style="text-align: center;">  Design         </div> <div style="text-align: center;">  Make         </div> <div style="text-align: center;">  Evaluate         </div> </div>

# Y1 Design Technology – Healthy Eating





## Design Brief – Making a Healthy Lunch for a Class Picnic

<u>Key Knowledge</u>
<p><b>What are the main food groups?</b> The Eatwell Plate shows us how much of each food we should be eating.</p>
<p><b>Where does our food come from?</b> Some food comes from plants. Some food comes from animals.</p>
<p><b>What foods are healthy and unhealthy?</b> Eating a range of different foods is healthy.</p>
<p><b>How do you plan a healthy lunch?</b> We can plan a lunch that includes all the 5 food groups.</p>
<p><b>How do you make a healthy lunch?</b> We use knives for slicing, cutting and spreading.</p>

<u>Key Vocabulary</u>			
<b>bread</b>		<b>chopping board</b>	
<b>butter</b>		<b>slicing or cutting</b>	
<b>knife</b>		<b>spreading</b>	



### Project Process

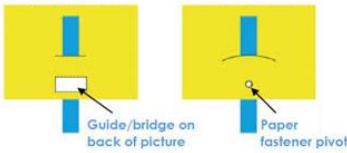
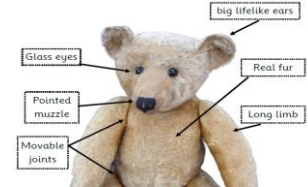
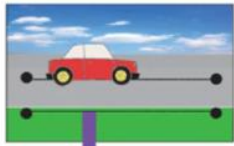




 Explore	 Design	 Make	 Evaluate
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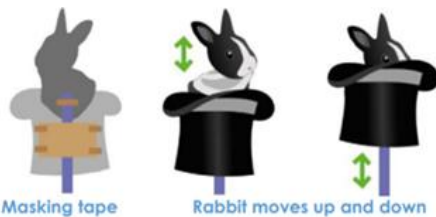
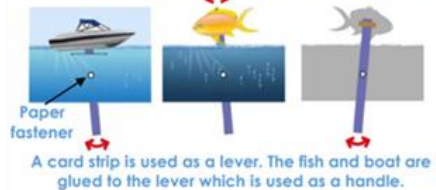
# Y1 Design Technology – Mechanisms: Sliders & Levers



## Design Brief – Can you design a pop-up puppet to retell the story *Room on the Broom*?

Essential Knowledge	Key Vocabulary		
<p><b>What are sliders and levers?</b> Sliders and levers are examples of simple mechanisms. Sliders move in a straight line. Levers follow a curved path.</p>	<p><b>mechanism</b></p>		<p><b>annotate</b></p> 
<p><b>How do you design a pop-up puppet to retell the story of <i>Room on the Broom</i>?</b> We will use ideas to create a labelled design for the pop-up puppet using the design criteria.</p>	<p><b>slider</b></p> 	<p><b>pop - up puppet</b></p> 	
<p><b>What materials will you use and why?</b> We will use card and a wooden dowel to make the base and the pop-up puppet.</p>	<p><b>lever</b></p> 	<p><b>material</b></p> 	
<p><b>How can you use your design to make your puppet?</b> We will follow steps carefully to make the pop-up puppet. We will use the equipment safely, so we do not hurt ourselves or others.</p>	<p><b>Aspirational Knowledge and Skills</b></p> <p>Different materials can be used for different purposes</p>		
<p><b>How does your puppet meet the design criteria?</b> A good design needs:</p> <ul style="list-style-type: none"> <li>• A working slider.</li> <li>• A matching design.</li> </ul>	<p><b>Project Process</b></p>  <p>Explore      Design      Make      Evaluate</p>		

Levers can be used with or without a slot





# Y1 Design Technology – Mechanisms: Sliders & Levers



## Design Brief – Can you design a pop-up puppet to retell the story *Room on the Broom*?

Key Knowledge
<p><b>What are sliders and levers?</b> Sliders move in a straight line. Levers follow a curved path.</p>
<p><b>How do you design a pop-up puppet to retell the story of <i>Room on the Broom</i>?</b> We will use ideas to create a labelled design for the pop-up puppet</p>
<p><b>What materials will you use and why?</b> We will use card and a wooden dowel to make the base and the pop-up puppet.</p>
<p><b>How can you use your design to make your puppet?</b> We will follow steps carefully to make the pop-up puppet. We will use the equipment safely, so we do not hurt ourselves or others.</p>
<p><b>How does your puppet meet the design criteria?</b> I will talk about the questions:</p> <ul style="list-style-type: none"> <li>• Does my puppet work?</li> <li>• How can I make my puppet better?</li> </ul>

Key Vocabulary			
<b>character</b>		<b>label</b>	
<b>slider</b>		<b>pop-up puppet</b>	
<b>lever</b>		<b>material</b>	

**Levers can be used with or without a slot**

Paper fastener

Masking tape

Rabbit moves up and down

A card strip is used as a lever. The fish and boat are glued to the lever which is used as a handle.

Project Process			
 Explore	 Design	 Make	 Evaluate

# Y1 Design Technology – Freestanding Structures

## Design Brief – To make a new chair for Baby Bear

### Essential Knowledge

#### What is a freestanding structure?

Freestanding structures are structures that have can stand up on their own, without being attached to something else.

#### How will baby bears chair stand up?

A good chair for Baby Bear needs to:

- Hold the weight of Baby Bear.
- Have 4 legs to support the seat.
- Have a strong back to support Baby Bear.

#### How do you make a chair for baby bear?

I can follow these instructions to make a chair:

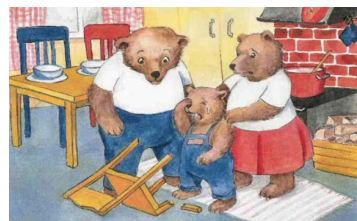
- Make 4-cylinder legs.
- Make a seat to rest on the legs.
- Attach the legs to the seat, using tabs.

#### How do you reinforce your chair?

- Tabs will be needed to connect the tubes.
- An L braced will be needed to connect the card that makes the back of the chair.

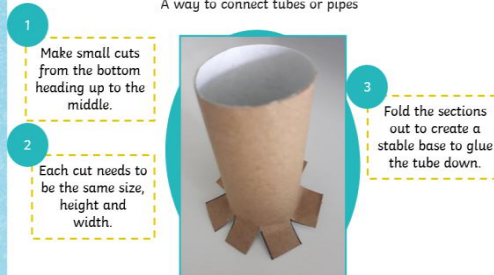
#### How strong was your chair for baby bear?

My chair holds baby bear, and all 4 legs stay on the floor.



### Tabs

A way to connect tubes or pipes



### L Brace

A way to connect two pieces with a 90° angle



### Key Vocabulary

incision



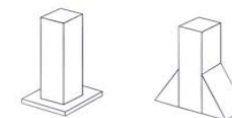
join



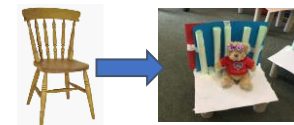
strengthen



support



replicate



### Project Process



Explore



Design



Make



Evaluate

### Aspirational Knowledge and Skills

To use more than one join can to attach the card together.

# Y1 Design Technology – Freestanding Structures

## Design Brief – To make a new chair for Baby Bear

### Key Knowledge

**What is a freestanding structure?**

A structure that can stand up by itself.

**How will baby bears chair stand up?**

- Have 4 legs to support the seat.
- Have a strong back to support Baby Bear

**How do you make a chair for baby bear?**

- Make 4-cylinder legs
- Make a seat.
- Attach the legs to the seat, using tabs.

**How do you make your chair strong?**

I will make tabs and an L brace.

**How strong was your chair for baby bear?**

My chair hold baby bear.

My chair stands up on 4 legs.



### Tabs

A way to connect tubes or pipes

- 1 Make small cuts from the bottom heading up to the middle.
- 2 Each cut needs to be the same size, height and width.
- 3 Fold the sections out to create a stable base to glue the tube down.

### L Brace

A way to connect two pieces with a 90° angle

- 1 Take two pieces of cardboard, one lies flat as the base, the other stands up to make the L shape.
- 2 Take a small rectangle piece of cardboard and fold it in half.
- 3 Glue the back of your folded piece and attach it to the bottom and side of the L shape.

### Key Vocabulary

**incision (cut)**



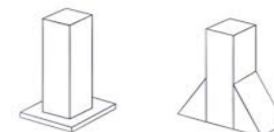
**join**



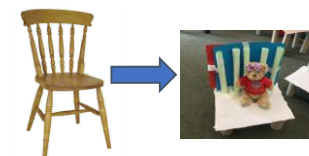
**strengthen**



**support**



**replicate**



### Project Process

