

Y3 Design Technology Knowledge Organisers



TO DO

- ☒ creative
- ☒ concept
- ☐

es!

Innovation

Y3—Autumn Term – DT (Cooking and Nutrition)

Where does food come from?

Food has to be grown, farmed or caught. There is lots of delicious food that we grow in England but we also import food from Europe and the wider world.

We eat lots of different parts of plants for example:

Roots (carrots and potatoes)

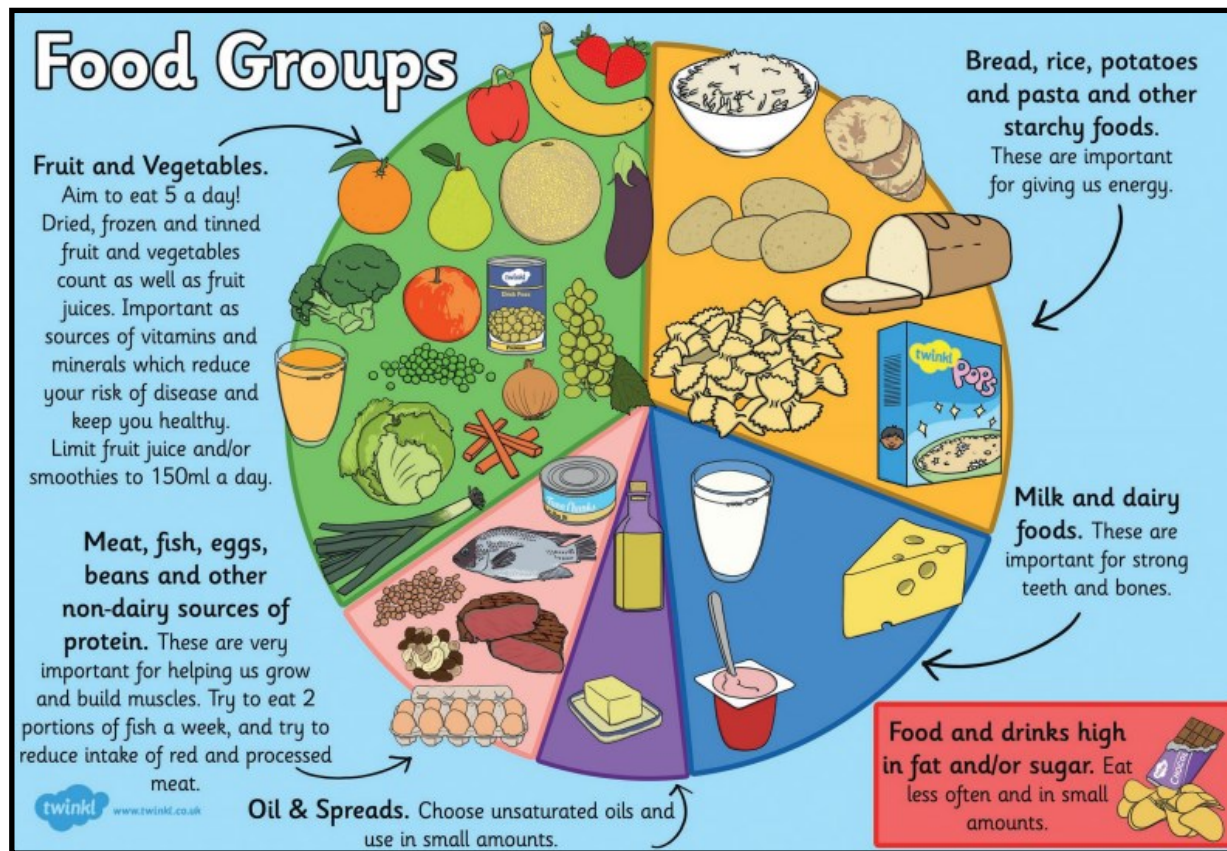
Stems (asparagus and ginger)

Leaves (spinach and lettuce)

Flowers (cauliflower and broccoli)

Fruits (apple and tomato)

Seeds (rice and peas).



Vocabulary

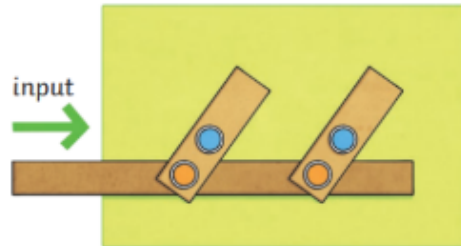
grating	To rub food against a grater in order to cut it into a lot of small pieces.
slicing	Slicing is cutting an item into thinner pieces. Depending on the food, slices can be crosswise or lengthwise. A carrot, for instance, usually is cut crosswise into
chopping	This is a method for cutting food into bite-sized pieces
dicing	The process of cutting food into small cubes of equal size. This can help them to cook at the same time.
peeling	Peeling removes the outer layer of rind or skin.
sieving	Sieving is when we drain away the water. The sieve catches the food and lets the water pass through small holes.
stirring	To mix a something in a circular pattern using a spoon, spatula or other utensil.
weighing (scales)	We can weigh out ingredients using a scale so we know how much of each ingredient we have. Ingredients are often weighed in grams (g).
measuring (using measuring spoons)	We can measure ingredients to find out how much of each ingredient we have. We can use measuring spoons to help us get the right amounts.
tsp	Teaspoon
tbsp	Tablespoon

Y3 Summer Term—DT—Moving Pictures

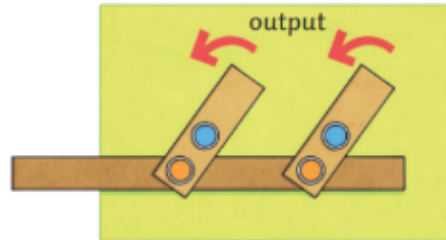
Exploring Mechanical Systems

Many **mechanisms** take one type of **input motion**, and **output** it as a different type of **motion**.
In lever and linkage **mechanisms**:

Input - The movement of the main lever by the user.

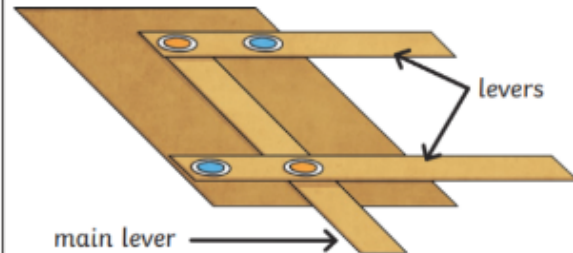


Output - The movement that is made by the smaller levers.



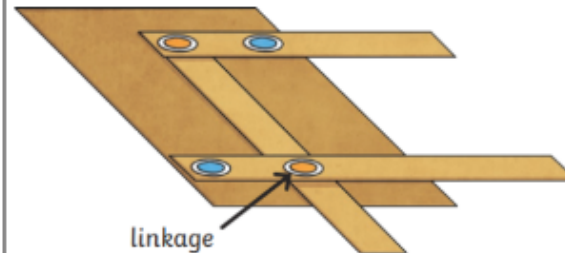
Lever

The simplest type of **mechanism**. A lever is a stiff bar which moves around a **pivot**.



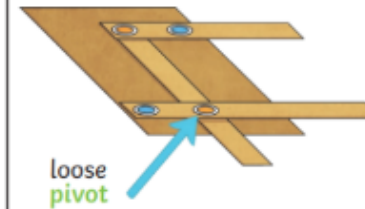
Linkage

The part of the **mechanism** used to join one or more levers to produce the type of movement required.



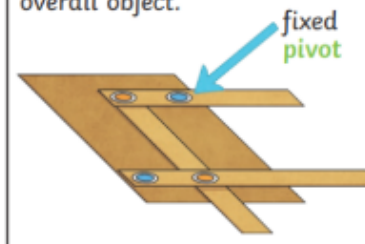
Loose Pivot

Joins the levers together.



Fixed Pivot

Joins the levers to the overall object.



Design, make and evaluate a moving mechanical picture (product) for myself (user) to retell a story (purpose).

Design brief

When we make our moving pictures, we need to follow a design brief. A design brief is a planning document that clearly explains what the project has to achieve, how it will be achieved, and how long you have to do it.

Vocabulary

motion	Movement from one place to another	linear motion	Moving in a straight line, e.g. paper trimmer
pivot	To turn on a central point.	reciprocating motion	Moving forwards and backwards in a straight line, e.g. cutting with a saw.
rotary motion	Turning round in a circle, e.g. a wheel.	oscillating motion	Swinging from side to side in an arc, e.g. a pendulum in a clock