



Y2 Design Technology – Where does our food come from?



Design Brief – Make a Rainbow Pizza

Essential Knowledge

Where do our foods come from?

We get food from plants and animals. Vegetarians do not eat meat. Vegans don't eat anything that has come from an animal.

How are our foods produced?

Pizza dough is made by combining ingredients and kneading it. Pizza sauce is made by cooking tomatoes and herbs.

What do we need to make a pizza?

We need to make a shopping list of the ingredients we need for making pizzas. We need to make sure that we have enough of each ingredient.

How do you follow a recipe to make a dough base?

We will follow a recipe to make the dough, look at how the ingredients are mixed and kneaded together and look at how the ingredients change as they are kneaded.

What will you top your bread with to make a rainbow pizza?

It is important to choose healthy options for the toppings of a pizza. We are choosing different vegetables of different colours to get different nutrients.

How To Make Pizza Dough

INGREDIENTS

- 400 g plain flour
- 1 tsp fast-action dried yeast
- 1 tsp salt
- 250ml lukewarm water
- 2 tsp extra virgin olive oil
- 1 tsp sugar



COOKING INSTRUCTIONS

- Put the flour into a mixing bowl, then sprinkle in the yeast.
- Add warm water and oil, mix together slightly, then add the salt and sugar.
- Move to a clean work surface and knead until smooth. This will take about 8–10 minutes. Alternatively, you can make the dough using a stand mixer fitted with a dough hook.
- Divide dough in half and roll into balls. Place into a deep dish dusted with flour and lightly flatten the balls.
- Cover with cling film and leave to rise at room temperature for 1hr 30 min or until doubled in size.

Project Process



Explore



Design



Make



Evaluate

Aspirational Knowledge and Skills

Bread is made from wheat. The wheat is milled and ground into flour.

We need to measure precisely to make sure that our recipes work.

Key Vocabulary

healthy		keeping your body “working at its best” feeling well and happy
balanced		eating the right amounts of each food
recipe		a set of instructions for making food
produce		the process of making food
wheat		a cereal used when making bread
knead		to squeeze dough with your hands
prove		the process of leaving dough to rise before baking it

The Eatwell Plate



Design Brief – Make a Rainbow Pizza

Key Knowledge

Where do our foods come from?

We get food from plants and animals. Vegans don't eat anything that has come from an animal.

How are our foods made?

Pizza dough is made by combining ingredients and kneading it. Pizza sauce is made by cooking tomatoes and herbs.

What do we need to make a pizza?

We need to make a shopping list of the ingredients we need for making pizzas.

How do you follow a recipe to make a dough base?

We follow a recipe as a class to make the dough. We look at how the ingredients are mixed and kneaded together.

What will you top your bread with to make a rainbow pizza?

It is important to choose healthy options for the toppings of a pizza. We are choosing different vegetables of different colours.

Project Process



Explore



Design



Make



Evaluate

How To Make Pizza Dough

INGREDIENTS

- 400 g plain flour
- 1 tsp fast-action dried yeast
- 1 tsp salt
- 250ml lukewarm water
- 2 tsp extra virgin olive oil
- 1 tsp sugar



COOKING INSTRUCTIONS

1. Put the flour into a mixing bowl, then sprinkle in the yeast.
2. Add warm water and oil, mix together slightly, then add the salt and sugar.
3. Move to a clean work surface and knead until smooth. This will take about 8–10 minutes. Alternatively, you can make the dough using a stand mixer fitted with a dough hook.
4. Divide dough in half and roll into balls. Place into a deep dish dusted with flour and lightly flatten the balls.
5. Cover with cling film and leave to rise at room temperature for 1hr 30 min or until doubled in size.



Key Vocabulary

healthy



keeping your body “working at its best” feeling well and happy

balanced



eating the right amounts of each food

recipe



a set of instructions for making food

knead



to squeeze dough with your hands

prove



the process of leaving dough to rise before baking it

The Eatwell Plate





HOUSTON PRIMARY SCHOOL

Y2 Design Technology – Mechanisms: Wheels and Axles

Design Brief – Can you design and make a fast car for Mrs Armitage?



HOUSTON PRIMARY SCHOOL

Essential Knowledge

What are wheels and axles?

Wheels and axles make a car move. There are 2 different types of axles – fixed and floating axles.

How do you design a car for Mrs Armitage?

Using ideas to create a labelled design for the car following the design criteria.

How do you make a car with working wheels?

Create the car's chassis using a cardboard box, then attach axles and wheels before completing the final design.

Which kind of axle made the fastest car?

Test both axle designs by racing the cars – will the fixed or floating axle come out on top?

Project Process



Explore



Design



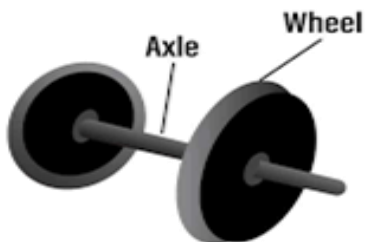
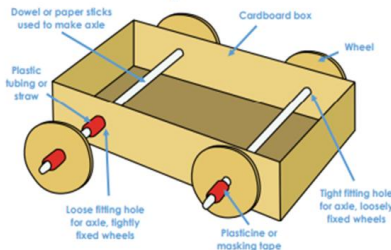
Make



Evaluate



Two different ways to fix wheels



Key Vocabulary

axle	a rod in which a wheel turns
chassis	the frame of a vehicle
assembling	putting things together
mechanism	the working part of an item
dowel	a piece of wood shaped like a cylinder
design	a plan of how you want something to look
purpose	the reason why we are making an item
evaluate	to sum up what went well and to think about what you would do if you could do it again

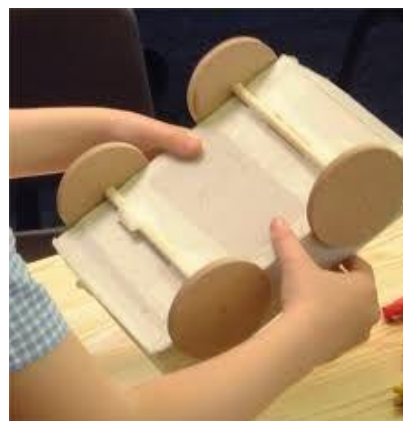
Aspirational Knowledge and Skills

I can make both axles with confidence and independence.

I know which axle makes the vehicle move fastest and why.

Design Brief – Can you design and make a fast car for Mrs Armitage?

Key Knowledge
<p>What are wheels and axles? Wheels and axles make a car move. There are 2 different types of axles - fixed and floating axles.</p>
<p>How do you design a car for Mrs Armitage? Using ideas to create a labelled design for the car following the design criteria.</p>
<p>How do you make a car with working wheels? Create the car's chassis using a cardboard box, then attach axles and wheels before completing the final design.</p>
<p>Which kind of axle made the fastest car? Test both axle designs by racing the cars - will the fixed or floating axle come out on top?</p>



Key Vocabulary		
axle		a rod on which a wheel turns
chassis		the frame of a vehicle
mechanism		the working parts of an item
dowel		a piece of wood shaped like a cylinder

Project Process			
 Explore	 Design	 Make	 Evaluate



Y2 Design Technology – Textiles



Design Brief – Can you make a puppet of a new zoo character?

Essential Knowledge

What different types of puppets are there?

There are different types of puppets including glove, hand, marionette, finger and rod.

How do I make a design for a puppet?

A paper pattern is a template that can be used to plan what size and shape the material needs to be.

How will we join our material together?

A whip stitch can be used to join two pieces of material together.

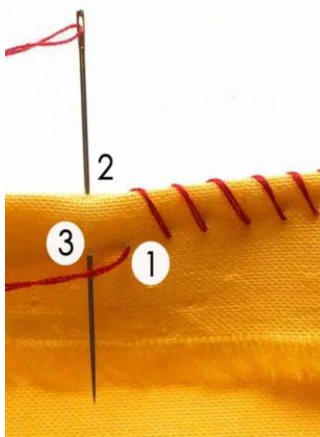
How can you use your design to make a puppet?

We will use tools safely to make a puppet and add detail to my puppet to make it look like my design.

How did your puppet meet the design criteria?

A good puppet needs to:

- Look like my design.
- Be sewn together securely.
- Fit on your hand.



Key Vocabulary

paper pattern



a template that can be used to plan what size and shape the material needs to be

felt



a type of material that can be used to make puppets

needle



a needle is used to push the thread through the material

thread



a thin material for joining pieces of fabric together

whip stitch



a type of stitch the needle is pushed through the material from the back

Aspirational Knowledge and Skills

Different stitches can be used for different purposes. Some are stronger than others.

Project Process



Explore



Design



Make



Evaluate



Y2 Design Technology – Textiles



Design Brief – Can you make a puppet of a new zoo character?

Key Knowledge

What different types of puppets are there?

There are different types of puppets including glove, hand, marionette, finger and rod.

How do I make a design for a puppet?

A paper pattern is a template that can be used to plan what size and shape the material needs to be.

How will we join our material together?

A whip stitch can be used to join two pieces of material together.

How can you use your design to make a puppet?

We will use tools safely to make a puppet and add detail to my puppet to make it look like my design.

How did your puppet meet the design criteria?

A good puppet needs to:

- Look like my design.
- Be sewn together securely.
- Fit on your hand.



Key Vocabulary

paper pattern		a template that can be used to plan what size and shape the material needs to be
needle		a needle is used to push the thread through the material
thread		a material for joining pieces of fabric together
whip stitch		a type of stitch. the needle is pushed through the material from the back

Project Process



Explore



Design



Make



Evaluate