

# Sir John Barrow Primary School Design & Technology Curriculum

## Design and Technology Coverage

### Year 1

- . Design purposeful, functional and appealing products
- . Generate, model and communicate ideas
- . Use a range of tools and materials to complete practical tasks
- . Evaluate existing products and own ideas
- . Build and improve structure and mechanisms
- . Understand where food comes from

### Year 1 entitlements

Make at least one individual 3d model based on a topic

Help to design and create at least one large scale model based on their topic

Use and explore mechanisms such as levers, sliders, wheels and axles in making their products

Produce a weaving

Prepare/cook food at least once each term, linked to their topic

Experience design and technology via Forest School activities?

Take part in at least one whole school design and technology project

# Sir John Barrow Primary School Design & Technology Curriculum

## Design and Technology Coverage

### Year 2

- . Design purposeful, functional and appealing products
- . Generate, model and communicate ideas
- . Use a range of tools and materials to complete practical tasks
- . Evaluate existing products and own ideas
- . Build and improve structure and mechanisms
- . Understand where food comes from

### Year 2 entitlements

Produce an object using material, needle and thread

Make at least one individual 3d model based on a topic

Help to design and create at least one large scale model based on their topic

Use and explore mechanisms such as levers, sliders, wheels and axles in making their products

Prepare/cook food at least once each term, linked to their topic

Experience design and technology via Forest School activities?

Take part in at least one whole school design and technology project each year

# Sir John Barrow Primary School Design & Technology Curriculum

## Design and Technology Coverage

### Year 3

- . Use research and criteria to develop products which are fit for purpose
- . Use annotated sketches and prototypes to explain ideas
- . Evaluate existing products and improve own work
- . Understand seasonality; prepare and cook mainly savoury dishes

### Year 3 entitlements

Prepare/cook food at least once each term, linked to their topic

Experience design and technology via Forest School activities?

Take part in at least one whole school design and technology project each year

Use and explore mechanisms such as levers, sliders, wheels and axles in making their products

Design and make at least one 3d model linked to a topic each year

Make at least one object using textiles, needles and thread, each year

# Sir John Barrow Primary School Design & Technology Curriculum

## Design and Technology Coverage

### Year 4

- . Use research and criteria to develop products which are fit for purpose
- . Use annotated sketches and prototypes to explain ideas
- . Evaluate existing products and improve own work
- . Understand seasonality; prepare and cook mainly savoury dishes

### Year 4 entitlements

Prepare/cook food at least once each term, linked to their topic

Experience design and technology via Forest School activities?

Take part in at least one whole school design and technology project each year

Use and explore mechanisms such as levers, sliders, wheels and axles in making their products

Design and make at least one 3d model linked to a topic each year

Make at least one object using textiles, needles and thread, each year

# Sir John Barrow Primary School Design & Technology Curriculum

## Design and Technology Coverage

### Year 5

- . Use research and criteria to develop products which are fit for purpose and aimed at specific groups
- . Use annotated sketches, cross section diagrams and computer aided design
- . Analyse and evaluate existing products and improve own work
- . Use mechanical and electrical systems in own products, including programming
- . Cook savoury dishes for a healthy and varied diet

### Year 5 entitlements

Design and make at least two 3d model linked to a topic each year, one using mechanical systems and one using electrical systems

At least one link with a local engineering company

Prepare/cook food at least once each term, linked to their topic

Experience design and technology via Forest School activities?

Take part in at least one whole school design and technology project each year

# Sir John Barrow Primary School Design & Technology Curriculum

## Design and Technology Coverage

### Year 6

- . Use research and criteria to develop products which are fit for purpose and aimed at specific groups
- . Use annotated sketches, cross section diagrams and computer aided design
- . Analyse and evaluate existing products and improve own work
- . Use mechanical and electrical systems in own products, including programming
- . Cook savoury dishes for a healthy and varied diet

### Year 6 entitlements

Design and make at least two 3d model linked to a topic each year, one using mechanical systems and one using electrical systems

Link with the design and technology department at UVHS for support with a project once each year?

At least one link with a local engineering company each year

Prepare/cook food at least once each term, linked to their topic

Experience design and technology via Forest School activities?

Take part in at least one whole school design and technology project each year