** Challenge **

**Curriculum Coverage 2 year rolling program**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **KS1** | **LKS2** | **UKS2** | **KS3**  | **KS3** |
| **Autumn 1****Celebrations** | **EYFS/NC Learning objectives**  | **Design and Make Products*** I can safely use and explore a variety of materials
* I can safely use and explore a variety of tools
* I can safely use and explore a variety of techniques,
* I can experiment with colour, design, texture, form and function.

**Learn about and use Modern Technology*** I can recognise that a range of technology is used in places such as homes and schools.
* I can select and use technology for particular purposes..

**Learn About Science*** I know about similarities and differences in relation to places, objects, materials and living things.
* I can talk about the features of my own immediate environment
* I can talk about how environments might vary from one another.
* I can make observations of animals and plants
* I can explain why some things happen
* I can talk about changes.

**Develop Independence*** I am try new activities
* I can communicate that I like some activities more than others
* I can communicate in a familiar group
* I can communicate to say I do or do not need help
 | **Design and Make Products*** I have followed instructions to make products from different materials
* I can cut using scissors with increasing control

**Learn about and use Modern Technology*** I can locate the letters on a keyboard with increasing speed
* I know how to use the shift, space bar and return keys.
* I can create simple documents on a computer using Word

**Learn About Science*** I can identify different parts of my body
* I know which parts of my body are linked to my senses
* I can explore properties of everyday materials

**Be Enterprising*** I recognise the role money plays in my life.
* I recognise how people’s lives are affected by how much money they have.

**Develop Independence*** I know some ways of looking after myself.
 |  **Design and Make Products*** I can use tools and other equipment safely, with supervision, where appropriate

**Learn about and use Modern Technology*** I can use technology to capture and create images and sound
* I can use technology to present my learning and ideas in a range of ways

**Learn About Science*** I can compare uses of everyday materials and how they can be changed

**Be Enterprising*** I have taken part in class enterprise projects; considering different ways of raising money and making my own suggestions

**Develop Independence*** I am starting to take some responsibility for being in the right place at the right time and for doing the right thing
 | **Autumn 1****Design and Make Products*** I have explored the ingredients in different foods
* I have evaluated different food products against a set of criteria
* I have prepared and cooked a range of sweet and savoury dishes

**Learn about and use Modern Technology*** I can type longer texts with increasing speed and accuracy
* I can select and manipulate text to change its size, colour and font.

**Learn About Science*** I have learned about light, how it is reflected, how shadows are formed and can change

**Be Enterprising*** I understand the terms profit and loss

**Develop Independence*** I am developing a range of strategies to enable me to be independent in my learning
 | **Autumn 3****Design and Make Products*** I have used sewing to make simple textile products
* I have prepared and cooked a range of sweet and savoury dishes

**Learn about and use Modern Technology*** I can select and manipulate text to change its size, colour and font
* I can insert pictures into texts and change their size and position within the text

**Learn About Science*** I have explored sound, creation of sound and change in pitch and volume
* I have learned about animals, including humans, focusing on nutrition, skeletons and muscles

**Be Enterprising*** I have learned about marketing techniques and have evaluated the success and impact of different advertisements.

**Develop Independence*** I can use a set of success criteria to help me identify how successful I have been at a particular task
 |
| **Focus**  | *Local / Family celebrations*  | *National celebrations*  | *International celebrations*  | *Religious Festivals / Different cultures*  | *Birth, death, marriage, rites of passage* |
| **Spring 1****Global Warriors** | **EYFS/NC Learning objectives**  | **Design and Make Products*** I can safely use and explore a variety of materials
* I can safely use and explore a variety of tools
* I can safely use and explore a variety of techniques,
* I can experiment with colour, design, texture, form and function.

**Learn about and use Modern Technology*** I can recognise that a range of technology is used in places such as homes and schools.
* I can select and use technology for particular purposes..

**Learn About Science*** I know about similarities and differences in relation to places, objects, materials and living things.
* I can talk about the features of my own immediate environment
* I can talk about how environments might vary from one another.
* I can make observations of animals and plants
* I can explain why some things happen
* I can talk about changes.

**Develop Independence*** I am try new activities
* I can communicate that I like some activities more than others
* I can communicate in a familiar group
* I can communicate to say I do or do not need help
 | **Design and Make Products*** I can cut using scissors with increasing control
* I can make changes and improvements to my models as I am going along

**Learn about and use Modern Technology*** I can locate the letters on a keyboard with increasing speed.
* I know how to use the shift, space bar and return keys.
* I can create simple documents on a computer using Word

**Learn About Science*** I can explore properties of everyday materials

**Be Enterprising*** I know the relative value of British coins and notes.
* I am developing an understanding of the value of different everyday items and have compared items in terms of their value.

**Develop Independence*** I can look after my own possessions
 | **Design and Make Products*** I can use tools and other equipment safely, with supervision, where appropriate

**Learn about and use Modern Technology*** I can use the internet to find information and pictures linked to other areas of learning

**Learn About Science*** I can compare uses of everyday materials and how they can be changed
* I have observed how seeds and bulbs grow into plants and what plants need to stay healthy

**Be Enterprising*** I have made items to sell and helped to decide how much they are worth

**Develop Independence*** I know some strategies I can use to help me with my work if I get stuck
 | **Spring 1****Design and Make Products*** I have made products from kits by following a set of diagrammatic instructions.

**Learn about and use Modern Technology*** I can use search engines to find information and images and can select the most appropriate content for my purpose.
* I can use technology to communicate with people and know how to do so safely.

**Learn About Science*** I have investigated materials including rocks
* I can group materials

**Be Enterprising*** I know the same product can be sold for different prices and understand the cost of best value

**Develop Independence*** I can take responsibility for making sure I have the things I need in school with me each day
 | **Spring 3****Design and Make Products*** I have explored different ways of powering mechanisms and devices, such as battery, solar, wind up, gravity, manual, pneumatic.

**Learn about and use Modern Technology*** I can use technology to communicate with people and know how to do so safely

**Learn About Science*** I can classify living things and look at changes in the environment
* I have explored materials and their differing states of matter

**Be Enterprising*** I understand the terms profit and loss

**Develop Independence*** I can ask and answer questions about a range of topics in order to further my own learning
 |
| **Focus**  | *Plastic fantastic* | *Clothing / newspaper* | *Metal*  | *Recycling*  | *Climate change* |
| **Summer 1****Living Things** | **EYFS/NC Learning objectives**  | **Design and Make Products*** I can safely use and explore a variety of materials
* I can safely use and explore a variety of tools
* I can safely use and explore a variety of techniques,
* I can experiment with colour, design, texture, form and function.

**Learn about and use Modern Technology*** I can recognise that a range of technology is used in places such as homes and schools.
* I can select and use technology for particular purposes..

**Learn About Science*** I know about similarities and differences in relation to places, objects, materials and living things.
* I can talk about the features of my own immediate environment
* I can talk about how environments might vary from one another.
* I can make observations of animals and plants
* I can explain why some things happen
* I can talk about changes

**Develop Independence*** I am try new activities
* I can communicate that I like some activities more than others
* I can communicate in a familiar group
* I can communicate to say I do or do not need help
 | **Design and Make Products*** I can stick pieces together in different ways to make strong products

**Learn about and use Modern Technology*** I can use technology to present my learning in different ways.

**Learn About Science*** I can identify and name plants and look at their basic structure

**Be Enterprising*** I have taken part in class enterprise projects; considering different ways of raising money and making my own suggestions.

**Develop Independence*** I know some ways of looking after myself
 | **Design and Make Products*** I can stick pieces together in different ways to make strong products
* I have worked in a group to follow a recipe

**Learn about and use Modern Technology*** I have made short digital animations and videos.

**Learn About Science*** I have explored living things and their habitats
* I have learned about animals, including humans, focussing on reproduction, nutrition and exercise

**Be Enterprising*** I have explored how packaging and advertising are used to sell products
* I have created packaging and adverts for products

**Develop Independence*** I can speak for myself to make sure my opinion is heard or so I can get what I need
 | **Summer 1****Design and Make Products*** I have taken products apart and put them back together again
* I have used sewing to make simple textile products.

**Learn about and use Modern Technology*** I can insert pictures into texts and change their size and position within the text.
* I have created and edited digital animations and videos, combining images and sounds

**Learn About Science*** I can identify parts of plants, needs of plants and their life cycles
* I have learned about animals, including humans, focusing on nutrition, skeletons and muscles

**Be Enterprising*** I understand the role money plays in my life and have learned about managing money

**Develop Independence*** I recognise what good learning looks like and can describe the qualities of an effective learner
 | **Summer 3****Design and Make Products*** I can use a growing range of tools and equipment safely, including some electrical tools

**Learn about and use Modern Technology*** I can use search engines to find information and images and can select the most appropriate content for my purpose

**Learn About Science*** I have learned about animals including humans, focusing on change

**Be Enterprising*** I understand the role money plays in my life and have learned about managing money**.**

**Develop Independence*** I can make choices about what to do with my free-time
* I am developing a range of strategies to enable me to be independent in my learning
 |
| **Focus**  | *Animals*  | *Plants* | *Habitats*  | *Life cycles*  | *life stages* |
| **Autumn 2****Super Stars** | **EYFS/NC Learning objectives**  | **Design and Make Products*** I can safely use and explore a variety of materials
* I can safely use and explore a variety of tools
* I can safely use and explore a variety of techniques,
* I can experiment with colour, design, texture, form and function.

**Learn about and use Modern Technology*** I can recognise that a range of technology is used in places such as homes and schools.
* I can select and use technology for particular purposes..

**Learn About Science*** I know about similarities and differences in relation to places, objects, materials and living things.
* I can talk about the features of my own immediate environment
* I can talk about how environments might vary from one another.
* I can make observations of animals and plants
* I can explain why some things happen
* I can talk about changes

**Develop Independence*** I am try new activities
* I can communicate that I like some activities more than others
* I can communicate in a familiar group
* I can communicate to say I do or do not need help
 | **Design and Make Products*** I have worked in a group to follow a recipe.

**Learn about and use Modern Technology*** I can understand and use different algorithms

**Learn About Science*** I can identify parts of my body
* I have learned about humans, focussing on nutrition and exercise

**Be Enterprising*** I recognise the role money plays in my life.
* I recognise how people’s lives are affected by how much money they have.

**Develop Independence*** I know some ways of looking after myself
 | **Design and Make Products*** I have tasted and ranked different food products based on my own preferences
* I have helped to prepare or cook a range of sweet and savoury foods.
* I have experimented with combining tastes to see which work well together and which don’t

**Learn about and use Modern Technology*** I can use technology to capture and create images and sound.
* I can use the internet to find information and pictures linked to other areas of learning

**Learn About Science*** I have learned about animals, including humans, focussing on reproduction, nutrition and exercise
* I can compare the uses of everyday materials and how they can be changed

**Be Enterprising*** I have taken part in class enterprise projects; considering different ways of raising money and making my own suggestions.

**Develop Independence*** I know some strategies I can use to help me with my work if I get stuck
 | **Autumn 2****Design and Make Products*** I can follow a recipe.
* I can use a growing range of tools and equipment safely, including some electrical tools

**Learn about and use Modern Technology*** I can code using a range of software and apps
* I can understand and use more complex algorithms.

**Learn About Science*** I have explored earth and space, looking at the movement of the sun, earth and moon

**Be Enterprising*** I have helped to run a class business, working collaboratively within the team to suggest ideas and make decisions

**Develop Independence*** I can use a set of success criteria to help me identify how successful I have been at a particular task.
 |
| **Focus**  | *Who is my hero? / people who help us (Family & school)* | *Hero’s around us* | *Amazing human body / Amazing people* | *People who influence our lives…* |
| **Spring 2****How Things Work** | **EYFS/NC Learning objectives**  | **Design and Make Products*** I can safely use and explore a variety of materials
* I can safely use and explore a variety of tools
* I can safely use and explore a variety of techniques,
* I can experiment with colour, design, texture, form and function.

**Learn about and use Modern Technology*** I can recognise that a range of technology is used in places such as homes and schools.
* I can select and use technology for particular purposes..

**Learn About Science*** I know about similarities and differences in relation to places, objects, materials and living things.
* I can talk about the features of my own immediate environment
* I can talk about how environments might vary from one another.
* I can make observations of animals and plants
* I can explain why some things happen
* I can talk about changes

**Develop Independence*** I am try new activities
* I can communicate that I like some activities more than others
* I can communicate in a familiar group
* I can communicate to say I do or do not need help
 | **Design and Make Products*** I have followed instructions to make products from different materials.
* I have used a range of construction toys to make models

**Learn about and use Modern Technology*** I can create simple documents on a computer, using Word

**Learn About Science*** I have observed changes across the four seasons and looked at different types of weather
* I can identify and name a range of animals and understand how and why they are grouped

**Be Enterprising*** I know the relative value of British coins and notes
* I am developing an understanding of the value of different everyday items and have compared items in terms of their value

**Develop Independence*** I can look after my own possessions
 | **Design and Make Products*** I have used arrange of construction toys to make models.
* I can make changes and improvements to my models as I am going along
* I can use tools and other equipment safely, with supervision where appropriate

**Learn about and use Modern Technology*** I can create, test and amend a set of instructions for a programmable toy
* I can write a simple program and test it
* I can use technology safely and know how to respond if I see content that worries or upsets me.

**Learn About Science*** I have learned about forces and magnets
* I can compare uses of everyday materials and how they can be changed

**Be Enterprising*** I am developing an understanding of the value of different everyday items and have compared items in terms of their value

**Develop Independence*** I can speak for myself to make sure my opinion is heard or so I can get what I want or need
 | **Spring 2****Design and Make Products*** I have explored mechanisms with moving parts to understand how the movement is achieved and what it does.
* I have made mechanisms with simple moving parts

**Learn about and use Modern Technology*** I can create simple programs, including using sequence, selection and repetition.

**Learn About Science*** I have learned about electricity, including circuits
* I have learned about forces and magnets

**Be Enterprising*** I have learned about marketing techniques and have evaluated the success and impact of different advertisements.

**Develop Independence*** I can identify next steps in my learning
 |
| **Focus**  | *My body*  | *Lifestyles*  | *Money*  | *Technology* |
| **Summer 2****Our World** | **EYFS/NC Learning objectives**  | **Design and Make Products*** I can safely use and explore a variety of materials
* I can safely use and explore a variety of tools
* I can safely use and explore a variety of techniques,
* I can experiment with colour, design, texture, form and function.

**Learn about and use Modern Technology*** I can recognise that a range of technology is used in places such as homes and schools.
* I can select and use technology for particular purposes..

**Learn About Science*** I know about similarities and differences in relation to places, objects, materials and living things.
* I can talk about the features of my own immediate environment
* I can talk about how environments might vary from one another.
* I can make observations of animals and plants
* I can explain why some things happen
* I can talk about changes

**Develop Independence*** I am try new activities
* I can communicate that I like some activities more than others
* I can communicate in a familiar group
* I can communicate to say I do or do not need help
 | **Design and Make Products*** I can stick pieces together in different ways to make strong products.
* I can make changes and improvements to my models as I am going along

**Learn about and use Modern Technology*** I can understand simple algorithms
* I can create, test and amend a set of instructions for a programmable toy.

**Learn About Science*** I know which parts of my body are linked to my senses
* I can identify and name a range of animals and understand how and why they are grouped.
* I can identify and name plants and look at their basic structure

**Be Enterprising*** I recognise the role money plays in my life
* I recognise how people’s lives are affected by how much money they have

**Develop Independence*** I can look after my own possessions
 | **Design and Make Products*** I can use tools and other equipment safely, with supervision where appropriate.

**Learn about and use Modern Technology*** I have made short, digital animations and videos.

**Learn About Science*** I have explored living things and their habitats
* I have observed how seeds and bulbs grow into plants and what plants need to stay healthy
* I have learned about animals, including humans, focusing on reproduction

**Be Enterprising*** I have made items to sell and helped to decide how much they are worth
* I have created packaging and adverts for products

**Develop Independence*** I am starting to take responsibility for being in the right place at the right time and for doing the right thing
 | **Summer 2****Design and Make Products*** I have learned different techniques for joining materials.

**Learn about and use Modern Technology*** I can recognise acceptable and unacceptable behaviour online.
* I can use technology to communicate with people and know how to do so safely

**Learn About Science*** I have learned about animals including humans, focusing on eating, teeth, the digestive system and the food chain

**Be Enterprising*** I understand the terms profit and loss
* I understand the role money plays in my life and have learned about managing money

**Develop Independence*** I can ask and answer questions about a range of topics in order to further my own learning
 |
| **Focus**  | *Local community*  | *England*  | *Great Britain*  | *Europe*  |