Key Stage Two Autumn Term (2) 2020

 No Way Back!

This unit is a science based unit based around materials and their properties based around change, including the changes which happen during the process of cooking.

**Maths for Year 3 and 4**

* Strategies for division
* Strategies for addition and subtraction
* Doubling and halving
* Understanding fractions
* Finding fractions of amounts
* Symmetry and shape

**Maths for Year 5 and 6**

* Multiplication and division problem solving
* Addition and subtraction including money , decimals and word problems
* Ordering fractions
* Adding and subtracting fractions
* Properties of 2D and 3D shapes

**English for Year 3 and 4**

* Information gathering
* Questioning skills
* Discussion/speaking skills
* Writing from a viewpoint
* Information texts
* Ongoing spelling, punctuation and grammar strategies
* Ongoing reading and comprehension

**English for Year 5 and 6**

* Identifying and gathering information
* Phrasing questions
* Debating
* Persuasive writing techniques
* Information texts
* Ongoing spelling, punctuation and grammar strategies
* Ongoing reading and comprehension

**Key Vocabulary**

Solid, liquid, state, matter, particle, grain, category, classify, group, evidence, question, discuss

Solidifying, freezing, melting, condensing, evaporating, particles, thermometer, temperature, Celsius, Fahrenheit, degrees

Gas, state, particles, evidence, proof, explain Packaging, recycling, environment, glass, plastic, paper , yeast, dough, kneed, rise, leven, unleavened, carbon dioxide, irreversible change

Electricity, electrical circuit, complete circuit, circuit symbol, components, cell, battery, positive/negative, connect/connection, loose connection,

wire, crocodile clip, bulb, bright/dim, switch, buzzer, volume, motor, fast(er)/slow(er), voltage, current, conductor, insulator, metal/non metal, enquiry question, investigation, findings

* Recipe writing

**Science**

* Properties of liquids, solids and gases
* Changing state
* Exploring evaporation and condensation
* The water cycle

In addition, Year 5 and 6

* Understanding electricity and circuits
* Function of electrical components
* Investigating, designing and constructing circuits

**Design and Technology**

* Design a make a healthy pizza including base
* Origins of food
* effect of yeast
* analyse effect of heat on different toppings

**Knowledge learnt in other curriculum areas and beyond**

* Real life budgeting of ingredients to make pizzas
* Learning and performing the Christmas story and songs
* Christmas fundraising – Santa stroll
* Sharing of presentation of Curriculum tasks
* History and source of foods

**Suggestions for Parental Support at Home**

* Learning Times tables
* Rehearsing time tables for really quick recall
* Using times tables facts to calculate division facts

4x5=20 5x4=20

20÷4=5 20÷5=4

* Handling money in a real life shopping context
* Strong number bonds to 100
* Reading, rehearsing spellings
* Open and closed questions
* Speaking clearly for a purpose in front of others

Observe how liquids and solids at home behave. Exploratory play with rice, sponges, water, ice

* Squashing plastic bottles with lids on or inflated balloons. What’s inside?
* Discuss electricity use in the home
* Discuss electrical safety
* Making potato or lemon clocks
* observing in local environment on the news alternative ‘greener’ ways to generate electricity.
* Encourage research into how electric cars work?
* Support with reading food labels
* Make bread or pizza
* Let children help put shopping away and look at packaging
* How does the traffic light system on food packaging help with healthy eating?
* Is all bread the same? If not, why not?
* How could certain packaging be more environmentally friendly?
* How do the toppings change when they cook?

**Key Questions to ask your child at home**

Ask ‘what if’ questions.

What happens to the brightness of a bulb if I increase or decrease the number of bulbs in a circuit?

What happens to the brightness of a bulb if I increase or decrease the length of the wires in the circuit?

What happens to the brightness of a bulb if I increase or decrease the thickness of the wires in the circuit?

Is rice a liquid or solid? Explain

How do you know gasses exist if you can’t see them?

What happens to the water in a puddle? Does it disappear?