



BRABIN'S ENDOWED PRIMARY SCHOOL

Class: Oak Year 5/6 Term: Autumn 2 2023

Curriculum Unit -The Amazon

Key Learning Overview:-

Geography- children will be able to locate countries in North and South America, describe both physical and human geography of the Amazon rainforest, use maps and suggest a line of enquiry.

Science- By the end of this unit children should be able to categorise material changes into reversible or irreversible. E.g. Reversible changes: freezing, melting, boiling, evaporating, condensing and dissolving. Irreversible changes: cooking, reactions caused when some materials are mixed and new materials are created plus burning, rusting.

Art- Children will learn clay techniques and create pottery pieces based on Ancient Greek designs.

Writing Opportunities- we will write: a story based on another culture (South American), a persuasive speech/discussion and create non-fiction pieces.

Class Novel, key texts and extracts- Novel: The Explorer

Extracts: The Vanishing Rainforest, The Great Kapok Tree, Kenske's Kingdom and Deforestation reports

Curriculum Shapers

- Be Curious: develop an appreciation of and responsibility for the environment and experience contrasts with the Amazon
- Be Knowledgeable: develop subject specific language, manage, receive, record and apply information, nurture a thirst for knowledge and apply cross-curricular skills
- Be Adventurous: experience exhilaration, challenge and achievement
- Be Ambitious: see possibilities
- Be Creative: develop creative thinking skills and question why
- Be Collaborative: respect the opinions and difference of others and value one's own perceptions and others
- Be Reflective: make lifestyle choices in relation to learning and identify new aptitudes

Key Questions

- Where in the world is the Amazon Basin and in which countries is it located?
- How is the rainforest in the Amazon Basin changing? Why is the rainforest changing?
- How does this region of South America compare and contrast with regions we have studied before?
- What is a reversible change?
- What is an irreversible change?

Key Skills Coverage - Science

Prior Knowledge

- Year 1/2: Uses of everyday materials: properties and suitability
- Year 3/4: States of matter
- Year 3/4: Rocks and soil
- Compare and group materials together, according to whether they are solids, liquids or gases.
- Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius ($^{\circ}\text{C}$).
- Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

Key Scientific Skills

Knowledge

- Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.
- Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.
- Demonstrate that dissolving, mixing and changes of state are reversible change
- Recognise that dissolving is a reversible change and recognise situations where dissolving occurs.
- Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning, and the action of acid on bicarbonate of sod

Working Scientifically

- By observing and comparing the changes that take place, for example, when burning different materials or baking bread or cakes.
- By researching and discussing how chemical changes have an impact on our lives, for example cooking.
- By discussing [researching] the creative use of new materials such as polymers, super-sticky and super-thin materials.

Key Vocabulary

Reversible - possible to reverse, change back or turn back

Irreversible - Impossible to reverse, change back or turn back.

Properties- the ways in which an object behaves

Solid- having a firm shape or form that can be measured in length, width, and height; not like a liquid or a gas

Liquid- in a form that flows easily and is neither a solid nor a gas.

Gas- a form of matter that is neither liquid nor solid. A gas rapidly spreads out when it is warmed and contracts when it is cooled.

Dissolve- when a substance is mixed with a liquid and then dissolves

Variable- something that can change or that has no fixed value

Insoluble- impossible to dissolve, esp. in a given liquid.

Melting- to change from a solid to a liquid state through pressure or heat

Evaporation- to turn from liquid into gas; pass away in the form of vapour.

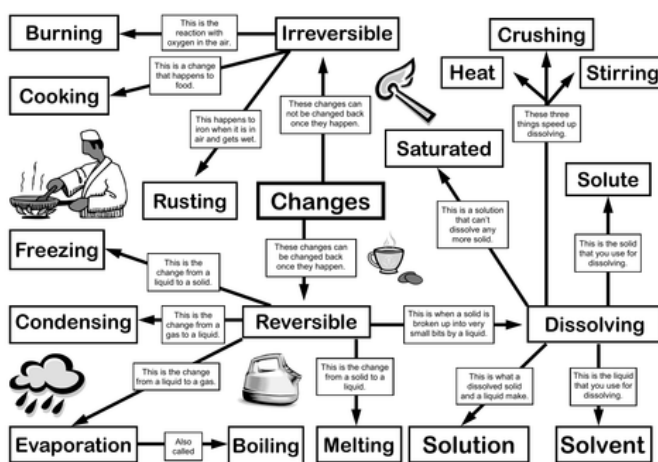
Filtering- a device used to remove dirt or other solids from liquids or gases

State- the structure or condition of something

Solution- a mixture that contains two or more substances combined evenly

Particles- a tiny amount or small piece

Permeable- of a substance, being such that gas or liquid can pass through it



Key Skills Coverage - Art

Prior Knowledge

- Year 1/2: 3D Sculpture- clay based on the human figure
- Year 3/4: 3D Sculpture- junk models and nature based

Key Skills

3D Sculpture:

- *Shape, form, model and construct from observation or imagination.
- *Plan a sculpture through drawing and other preparatory work.
- *Develop skills in using clay including slabs, coils, slips, etc.
- *Produce intricate patterns and textures in a malleable media.

Drawing:

- Work from a variety of sources including photographs and digital images.
- Work in a sustained and independent way to create a detailed drawing.
- Develop close observation skills using a variety of view finders.
- Use a journal to collect and develop ideas.

Lines, Marks, Tone, Form and Texture:

- Use dry media to make different marks, lines, patterns and shapes within a drawing.
- Use different techniques for different purposes i.e. shading, hatching within their own work.

Perspective and Composition:

- Begin to use simple perspective in their work using a single focal point and horizon.

