

Archie's Farm Educational Visit

Year 4 curriculum coverage for teachers.

Maths activity - Farm Builder

Children are given the task to design a mini farm of their own using exciting mini resources. This is then used for the activities to develop their mathematical skills. There are various differentiated activities to engage in and each activity has a design outcome that involves using various maths skills with a problem solving emphasis.

- Children use a budget of up to £10,000 (depending on ability) to plan, design and build a mini farm.
- Children decide how many fields and fences they want to buy within their budget. They explore the various area and perimeter patterns of different design options.
- Work to different given criteria e.g. use as few fences as you can to build a farm of given area.
- Children decide which animals/tractors etc. to buy for their farm within their budget.
- **More able** children can work out which animals, food, tools, tractors etc. to buy for their farm.

Many different Maths skills are used in this exciting activity. Children will play mathematically with their completed farms.

Programme of study:

- order and compare numbers beyond 1000
- round any number to the nearest 10, 100 or 1000
- solve number and practical problems that involve increasingly large positive numbers
- estimate and use inverse operations to check answers to a calculation
- solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
- use place value, known and derived facts to multiply and divide mentally
- solve simple measure and money problems involving fractions and decimals to two decimal places.
- estimate, compare and calculate different measures, including money in pounds and pence

English activity - Worm Hunter

Creative poetry writing - This activity takes children on a sensory investigation around our small woodland areas. Children hunt for 'hedgehogs'. At each hedgehog point there are different nature areas to investigate.

The children collect words/experiences/feelings whilst engaging in activities and exploring the natural forms around them. It is a great activity for developing rich language and encouraging the children to think about the quality of the words and ideas that they use. The children use their ideas to make poems. The children will have opportunity to say words/sentences out loud; drafting, expanding and improving ideas before finalising poem/creative work.

Programme of study:

children plan their writing by:

- discussing and recording ideas.

draft and write by:

- composing and rehearsing sentences orally, progressively building a varied and rich vocabulary.

evaluate and edit by:

- assessing the effectiveness of their own and others' writing and suggesting improvements.

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Science activity - Bug Hunter

Children will learn about bugs, habitats, life cycles, lifestyle and how bugs survive, change and multiply. Children are encouraged to behave scientifically by following guidelines in bug hunting, collecting information and collating/interpreting their findings.

Children explore how bugs can be grouped in different ways. They look at classification keys and food chains. Children try to find evidence for these. Children investigate bug habitats. They search for clues and predict possible environmental/habitat changes, dangers and predators.

Programme of study:

Living things and their habitats

Children will be taught to:

- recognise that living things can be grouped in a variety of ways
- explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
- recognise that environments can change and that this can sometimes pose dangers to living things.

Animals, including humans

Children will be taught to:

- construct and interpret a variety of food chains, identifying producers, predators and prey.

Art activity - Treasures of Nature

There are various activities some of which may be more suitable depending upon the time of year:

- We look at the works of Goldsworthy and other outdoor artists. Children collect natural things and create their own environmental art pieces.
- Drawing skills - Children learn different pencil techniques/strokes and practice these. They then look through magnifiers and draw close detail of natural materials around them.
- Children 'paint' with water. Brushes can be made using twigs, leaves and other natural things.
- Children use the natural materials around them to make a hanging mobile.
- Using plant dye around them from leaves and vegetation, children make a string of bunting or a flag.
- Children weave with natural materials that they find.

(Teachers are recommended to bring a camera for children/teachers to photograph these art projects as some are temporary and cannot be taken away).

Programme of study:

- produce creative work, exploring their ideas and recording their experiences

KS2:

- to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]