

A Curriculum for Excellence

Primary – numeracy



A Curriculum for Excellence recognises that learning is embedded in experience. Outdoor learning is active, hands-on and can provide a real & relevant context for learning.

Angle, Symmetry and Transformation



Explore how to enlarge and reduce shapes by drawing round pupils and then creating accurate outlines when enlarged or reduced - keeping the correct shape and proportions! Think about what size shoes they would then need, measure the size of their clothes etc...

I can apply my understanding of scale when enlarging or reducing pictures and shapes MTH 3-17a



Use a blank 100-square grid to revise horizontal & vertical axes and plot coordinates. You can use markers from the PE cupboard and join them up with skipping ropes.

To start with you can decide the coordinates (maybe to create objects you are studying in other topics) but lead on to groups designing puzzles for each other.

I can use my knowledge of the coordinates system to plot and describe the location of a point on a grid MTH 2-18a

Time



Draw large circles with chalk on tarmac (or sand if using grass), divide it into quadrants and add numbers to make a clock face. Collect sticks to use as hands and ask them to show the correct time – for a number of daily activities.

I can tell the time using 12 hour clocks and explain how it impacts on my daily routine MNU 1 -10a

Number and Number Processes



Estimate and then draw a variety of lines (2m, 10m, 15m, etc) and use these to create number lines. Estimate and mark halfway, then half of that again etc. Mark a variety of positions e.g. $0.25/0.5/0.75$; $5/10/15$; $1500/2500/3000$ etc. Swap groups to check each others.

I have extended the range of whole numbers I can work with and having explored how decimal fractions are constructed can explain the link between a digit, its place and its value.
MNU 2-02a



Ask the group to line up and then give each pupil a card in a series of numbers. Ensure there are 2 less cards than the number of children as these become problem solvers who have to arrange the others correctly - working out the pattern behind the cards.

I can use addition, subtraction, multiplication and division when solving problems, making use of mental strategies and written skills
MNU 1-03a

Measure



Investigate the playground by:

- finding something which around 1m, between 2-3m, around 4m etc - check using rulers & metre sticks
- measuring the width using hand spans then feet - notice the different results from different people.
- measuring three items in the playground with skipping ropes - estimate and then measure the number of ropes needed
- calculating how long it takes to walk, jog and run 10m. Measure the distances with trundle wheels and record times using stopwatches. Pupils can also record and compare their heart rates before and after exercise.

I can estimate how long or heavy an object is, or what it holds, using everyday things as a guide, then measure or weigh it using appropriate instruments and units.
MNU 1-11a

