



Mathematics Medium Term Plan

Foundation Stage Spring Term

Concept Sequence:

Numbers:

9 and 10 – apply counting principles when counting to 9 and 10, forwards and backwards. Represent 9 and 10 in different ways. Arrange 9 or 10 items into small groups to support subitising these larger numbers. Explore composition of numbers. Children notice a 10 frame is full when there are 10. Use tens frames, fingers, bead strings.

Comparing numbers to 10 – line items up with 1-1 correspondence to compare directly or by counting each set and comparing position in counting order. Look at sets with items the same, fewer, more. Compare two quantities before progressing to three.

Bonds to 10 – Explore bonds to 10 using real objects in different contexts. Use 10 frames, egg boxes and partially fill. How many more do we need to fill?

Shape, Measure and Spatial Thinking:

3D Shapes – explore and manipulate 3D shapes through block play and modelling. Prompt to consider which shapes stack and which roll and why that is. Build a variety of shapes and construct their own 3D shapes in different ways. Children can be introduced to the names of shapes and be given opportunities to explore similarities and differences between them, sort according to what they notice.

Pattern 2 – Build on previous AB pattern work. Explore more complex patterns, which use items more than once in each repeat eg. ABB, AAB, AABB, AABBB.... Each pattern needs at least 3 full units of repeat. The more unit repeats the easier it is to see the pattern. Make circular patterns not just straight lines.

Planning Links

White Rose: <https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/11/Reception-Scheme-Phase-6-Spring-2021.pdf>

NCETM: <https://www.ncetm.org.uk/in-the-classroom/early-years/>

BBC Number Blocks:

<https://www.bbc.co.uk/cbeebies/shows/numberblocks>

Early Math Collaborative: <https://earlymath.erikson.edu/>

NRICH <https://nrich.maths.org/early-years>

Learning Trajectories (L2) <https://www.learningtrajectories.org/>

HWB Wales

<https://hwb.gov.wales/repository/discovery?sort=recent&catalo>



Vocabulary

One, Two, Three, Four, Five, Zero, six, seven, eight, nine, ten
More, less, fewer, same

Names of 3D shapes (cube, pyramid, sphere, cone, cylinder)

Face, edge, vertex, stack, roll, pattern, repeat, pair

Focus: Unit 6: Building 9 and 10 Time: 4 Weeks

How do Dinosaurs Count to 10? - Yolen & Teague
One Gorilla - Atsuko Morozumi
Mouse Count - Ellen Stoll Walsh
Nine Naughty Kittens - Linda Jenny
Feast for 10 - Cathryn Falwell
Cockatoos - Quentin Blake
Mr Magnolia - Quentin Blake
Ten Black Dots - Donald Crews
The Napping House - Audrey Wood & Don Wood
Engines Engines - L Bruce & S Waterhouse
Mouse Shapes - Ellen Stoll Walsh
Changes Changes - Pat Hutchins
Pattern Bugs - Trudy Harris
Busy Busy Busy - Haneul Ddang
Pattern Fish - Trudy Harris

Resources

Real-life objects, counters, loose parts, cubes, ten frame, egg boxes, fingers, bead strings, small world objects, dominoes
White Rose Maths Interactive Whiteboards.

Number Blocks Series 2 – Ep 9 and 10.

10 Green Bottles.

Number Bond rhymes

5 eggs and 5 eggs

Chuck, Chuck, Chuck

Mr Willy-Nilly and Zoey's Dream – Seung-yim Bak

Farmer Pete – You Tube

Number Blocks – Blast Off!

Rapunzel

The Princess and the Pea

Go Noodle - Banana, Banana, Meatball



Enhancements to Learning:

Outdoor – Take 9 steps/jumps...Build a wall with 9/10 items.

Make patterns from a nature hunt. Make a 10 seater bus. 10

Hunt - Hide 10 items.

Make a Book – Stick collections to match numbers 1-10.

Construction – Make towers etc with 10 bricks.

Maths – Sort loose parts into sets. Thread beads onto a pipe

cleaner to make a caterpillar – order different ones. Sort

dominoes. Dominoes – who has more/less? Tens frame

memory game – make bonds.

Mark Making – write name – how many letters? Compare

with friend.

Art – 3D shape prints. Wallpaper/fabric patterns. Use loose

parts to make pattern pictures. Press shape sin dough to

make patterns.

Modelling – empty boxes/tubes to build a bridge for Billy

Goats.

