Science Disciplinary Knowledge and Maths Application Links

Science Disciplinary Knowledge:
Perform simple identifying, classifying and grouping tasks using basic observations.

Gather and record data to help in answering questions – using a given table/format or drawing own tables

Mathematical Application:
- Venn diagrams: not intersecting
- Tally charts
- Block graphs
- Pictograms – pictures = 1 item

Science Disciplinary Knowledge:
Making systematic and careful observations, taking and performing measurements using standard equipment.

Together, record, classify and present data in a variety of ways to help answer questions.

Record findings using simple scientific language, drawings, labelled diagrams, keys, charts and tables

Mathematical Application:
- Measuring in cm and mm using rulers
- Bar charts and Bar chart interpretation
- Tally charts
- Line graphs

Science Disciplinary Knowledge:
Taking measurements using a range of equipment with increasing accuracy and precision – taking readings where needed

Record data and results of increasing complexity in line with Year 6 maths

Mathematical Application:
- Convert metric measures
- Dual bar charts
- Pie charts
- Pie chart interpretation
- Calculating mean

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

Science Disciplinary Knowledge:
Perform simple identifying, classifying and grouping tasks using basic observations.

Gather and record data to help in answering questions – using a given table or format

Mathematical Application:
- Venn diagrams – not intersecting (practical using concrete objects and hoops).
- Counting numerically

Science Disciplinary Knowledge:
Gather, record, classify and present data in a variety of ways to help answer questions.

Record findings using simple scientific language, drawings, labelled diagrams, keys, charts and tables.

Mathematical Application:
- Bar charts
- Bar chart interpretation
- Pictograms – pictures = more than 1 item

Science Disciplinary Knowledge:
Taking measurements using a range of equipment with increasing accuracy and precision – taking readings where needed.

Record data and results of increasing complexity in line with Year 5 math

Mathematical Application:
- Using rulers, metre sticks and measuring wheels for length
- Using thermometers for temperatures
- Line graphs
- Line graph interpretation
- 2-way tables

Progression of Art Techniques-Painting

Poster paint - adding black and white to create tones and tints
- textured paint by adding sand, glue, glitter etc

Practise previously taught skills
Consolidation – using previously taught media

Practise previously taught skills
Watercolour paint – layering colours
Practise using colour to create **mood**

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

Poster paint - colour mixing primary to secondary
-use a variety of brush sizes to practise control

Poster paint – refine colour mixing and matching
Watercolour paint - practise creating different depths of colour

Practise previously taught skills
Practise using colours to create warmth and coolness

Progression of Art Techniques- Collage

Linked to eco art-re-using old/abandoned plastic items. Pollution found on the beach etc.

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

Land art – creating arrangements using natural/everyday objects

Progression of Art Techniques- Sculpture

Clay - create shapes and model from observation.
- use simple tools to shape.
- impress and apply

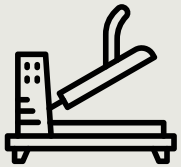
Clay – mould following design, slip and score to join.
- create texture using tools.

Mod rock – mould, layer

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

Wire – bend, twist and fold to create shapes.

Progression of Art Techniques- Printing



Relief printing - Styrofoam sheets to create print blocks

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

Land art - impress and apply

Relief printing - DIY printing blocks- cardboard, string, foam pieces etc

Progression of Art Techniques- Digital Media

Linked to eco art
Suggested Software:
2simple, paint,
photo editor,
sketch up, publisher

Photography
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2simple, paint,
photo editor,
sketch up, publisher

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

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