



KS1 Maths

Year 2 - Information for Teachers

National Curriculum objectives:

Number and Place Value

- Use place value and number facts to solve problems.

Addition and Subtraction

- Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures, applying their increasing knowledge of mental and written methods.
- Add and subtract numbers using concrete objects, pictorial representations, and mentally.

Multiplication and division

- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.
- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

Fractions

- Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity.

Measurement

- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm).
- Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value, find different combinations of coins that equal the same amounts of money.
- Compare and sequence intervals of time.

Geometry

- Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.

Mother Shipton's

Activities:

Mother Shipton trail - to be used as children go through the park:

Children go through the park using their surroundings to work out differentiated mathematical calculations and problems which include:

- * Addition and subtraction calculations linking to the trees within the park and the steps to the cave and Petrifying Well.
- * 2D shape hunt.
- * Addition and subtraction calculations linking to the steps up to the top of the petrifying well.
- * Fractions (halves and quarters).
- * Multiplication calculations linking to the number of teddies hanging up under the Petrifying Well.
- * Coin identification and money problems linking to the Wishing Well.
- * Identification of what tool of measurement you would use to measure Beech Avenue and minutes/seconds conversion question.
- * Mathematical vocabulary word search.

Resources needed:

- *Pencils*
- *Possibly paper for working out*
- *Rubbers*
- *Possibly 2D shape examples*
- *Possibly coin examples*
- *Any mathematical supporting resources normally used for each area*

Answers:

1. Tree Tester:

✧ 30 ✧✧ 20 ✧✧✧ 65

2. Shape Hunt: Grid - dependent on shapes seen.

Mother Shipton's

3. Cackling Calculations:

◇ 21 ◇◇ 32 ◇◇◇ 64

4. Fearsome Fractions:

◇ half of the circle should be coloured in ◇◇ 1 teddy bear should be coloured in
◇◇◇ $\frac{3}{4}$ has been coloured in

5. Puzzles:

◇ 6 months ◇ dependent on number of teddies seen
◇◇ 60 teddies altogether ◇◇◇ 6 teddies on each piece of string

6. Wishing Well Wealth:

◇ coins - 1p, 2p, 5p, 10p, 20p, 50p, £1, £2 ◇◇ 20p, 20p, 5p, 2p
◇◇◇ £1.55

7. Mystical Measuring: you would use metres to measure the distance

◇◇◇ 120 seconds