



KS1 Maths

Year 1 - Information for Teachers

National Curriculum objectives:

Number and Place Value

- Given a number, identify one more and one less.
- Count to and across 100 forwards and backwards, beginning with 0 or 1, or from any given number.

Addition and Subtraction

- Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.
- Represent and use number bonds and related subtraction facts within 20.
- Add and subtract one-digit and two-digit numbers to 20, including zero.
- Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations.

Multiplication and division

- Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

Fractions

- Recognise, find and name a half as one of two equal parts of an object, shape or quantity.
- Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.

Measurement

- Recognise and know the value of different denominations of coins.
- Compare, describe and solve practical problems for length.

Geometry

- Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles].

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.
- * 2D shape hunt.
- * Addition and subtraction calculations linking to the steps to the cave and the 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 and Museum.
- * Identification of what tool of measurement you would use to measure Beech Avenue.
- * 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:

✧ 10 ✧✧ 12 ✧✧✧ 15

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

3. Cackling Calculations:

✧ 21 ✧✧ 26 ✧✧✧ 36

Mother Shipton's

4. Fearsome Fractions:

- ✧ half of the circle should be coloured in
- ✧✧ 2 teddy bears should be coloured in
- ✧✧✧ 1 of the 4 squares should be coloured in.

5. Puzzles:

- ✧ 6 months
- ✧✧ 40 teddies altogether
- ✧ dependent on number of teddies seen
- ✧✧✧ 4 teddies on each piece of string

6. Wishing Well Wealth:

- ✧ coins - 1p, 2p, 5p, 10p, 20p, 50p, £1, £2
- ✧✧ 20p, 10p, 5p
- ✧✧✧ 52p

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