

For Key Stage 1

Magical Maths Book 1

**High interest activities to ensure
maths concepts are learnt in a
practical and enjoyable way.**

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Introduction

Maths is like a jigsaw puzzle – little bits and pieces of scattered information – some fit together and make sense, some don't. Often lessons cover a range of topics over the week – a bit of number pattern work on Monday, a bit of measurement on Tuesday, maths facts on Wednesday, and so on.

Ideally maths is taught in contextual chunks rather than little bits and is integrated with other subject areas to help children see its value and purpose in everyday life, that is, to see how the pieces fit together.

The activities in this book have been designed with this in mind.

The activities also provide a new version of the 3 R's:

REVISION: Revise the basic concepts.

REAL-LIFE: Relate to children's own experiences.

RADICAL : Fun activities and themes, games and new ideas.

The tasks in the book fit into the concept areas of Number, Measurement and Space.

Teaching Notes

The activity sheets in this book are accompanied by introductory teaching notes which will provide teachers with the information necessary to conduct a successful lesson.

Also, a number of **Additional Activities** pages have been included. These provide a range of stimulating ideas and activities which are unaccompanied by a worksheet. In most cases teachers can easily produce their own materials, based on the information provided. Some of the **Additional Activities** are intended to be used for blackboard activity sessions or in oral learning situations. Note that information for the Additional Activities is enclosed in a box for easy identification.

Curriculum Links

Attainment Targets are shown at the base of each student activity sheet.

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Teaching Notes

The following notes will give teachers ideas for the use of the relevant page as well as background information to use in other lessons on the class timetable.

Activity Sheets 1, 2, 3 and 4

Activity Sheet 1: Dog and Bone

Materials

Dog and Bone Activity Sheet 1; coloured pencils; scissors; glue.

Teaching Points

Discuss size of objects using terms such as big, bigger, biggest and small, smaller, smallest. Children cut and glue to match the dogs and bones to kennels.

Extension

1. Discussion - Discuss various breeds of dogs, their characteristics and how to look after them, for example

Dalmatians

- They are friendly and well-mannered but need lots of time and attention or they become destructive.
- Their coats are mostly white with round spots in black or brown.
- They make good guard dogs or search and rescue dogs.
- They are prone to sunburn because of their white colouring.

Labradors

- They are intelligent dogs, often used as guide dogs for deaf and blind people.
- They are very loveable in a family situation but need lots of exercise to keep their weight down.
- They also make good guard dogs.
- They are very trustworthy.

2. Puppy Maths - Draw 3 puppies on the blackboard. Ask questions such as:

- How many dogs?
- How many legs?
- How many ears?
- How many waggy tails?
- How many eyes?

Pose problems such as: I see eight little legs running by with four ears flapping. How many dogs is that? Draw them.

Activity Sheets 2, 3 and 4: Dot-to-Dot activities

Materials

Dot-to-Dot Activity Sheets 2, 3 and 4; coloured pencils.

Teaching Points

Practise counting in 1's, 2's, 5's and 10's. Follow up with dot-to-dot sheets.

Name: _____

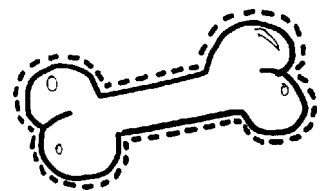
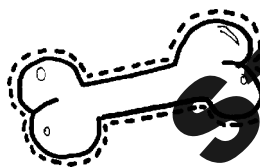
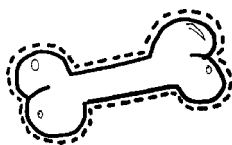
Activity Sheet 1: Dog and Bone

- ☆ Cut out each dog and bone. Match the dogs with their kennels and glue them in. Glue their matching bones in front of the kennels.

SPOT

BECKY

TESS



AT: Space & Geometry: Matches, compares and arranges objects according to size and shape.

Activity Sheets 5, 6, 7 and 8

Activity Sheets 5 and 6: Maths Facts Templates

Materials

Maths Facts Activity Sheets 5 and 6; blackboard, children's own books, pencils.

Teaching Points

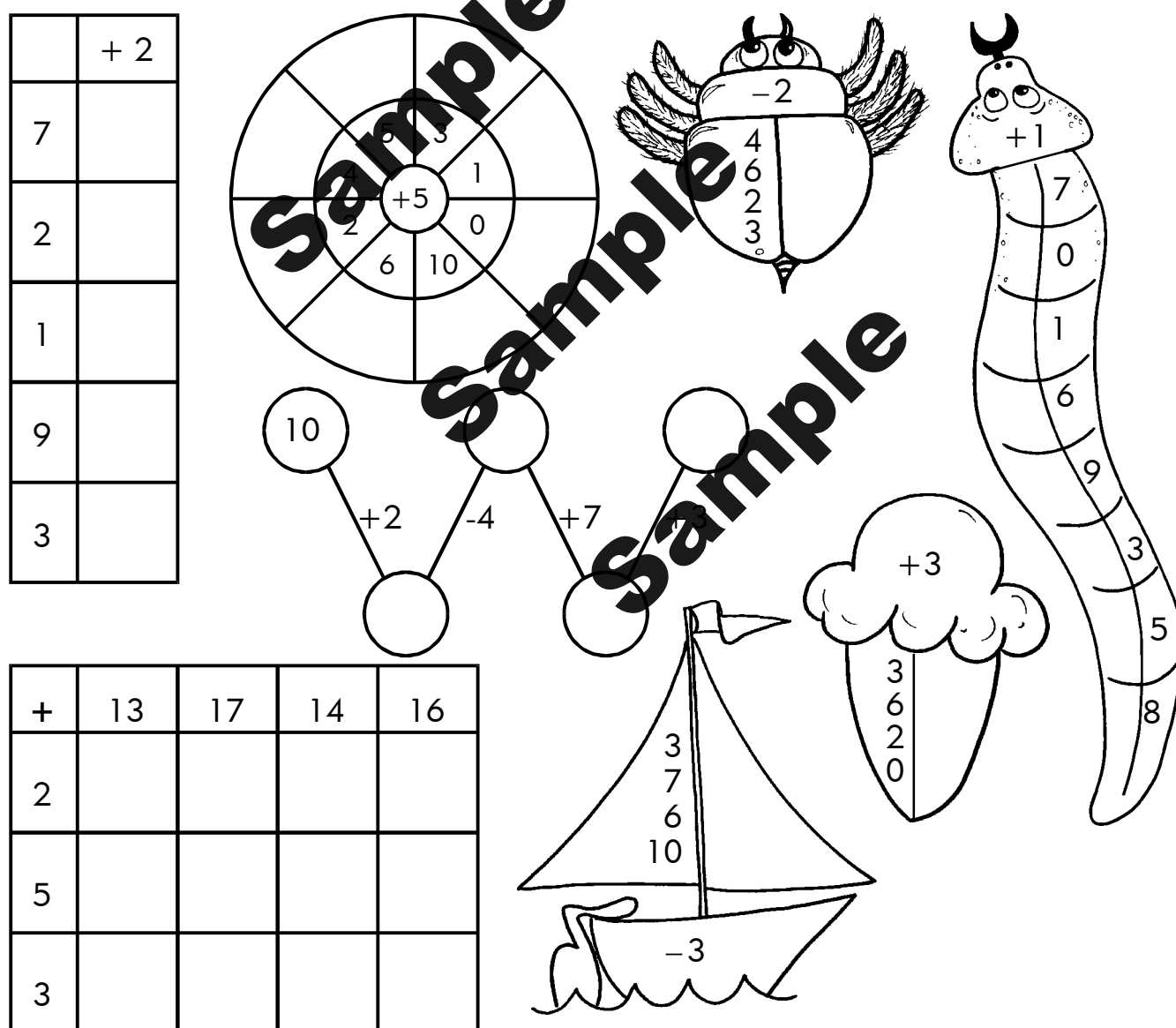
There are many different ways of presenting simple maths facts for revision. Vary difficulty according to age and ability. Here is a general guideline:

Year One: Addition facts to 10.

Year Two: Addition and subtraction facts to 20. Include counting on and back $+1, +2, +3, -1, -2, -3$, doubles, zeros, 10's facts. Use basic facts in operations to 99.

Year Three: Consolidate addition and subtraction facts to 20. Use basic facts in operations to 999. Multiplication facts to $9 \times$ but begin with easy 1's, 2's/5's, 1's/0's.

The activity pages contain templates that teachers or children can enter numbers into as required. The examples below will provide some ideas.



Activity Sheets 7 and 8: Maths Facts Revision

Materials

Maths Facts Activity Sheets 7 and 8; coloured pencils. Use sheets as on Instructions.

Name: _____ **Activity Sheet 8: Maths Facts Revision**

★ In each sum add more dots to make 10.
Write the missing number in the box.

$$\begin{array}{r} 1 \cdot \\ + \square \\ \hline 10 \end{array}$$

$$\begin{array}{r} \square \\ + 7 \dots \\ \hline 10 \end{array}$$

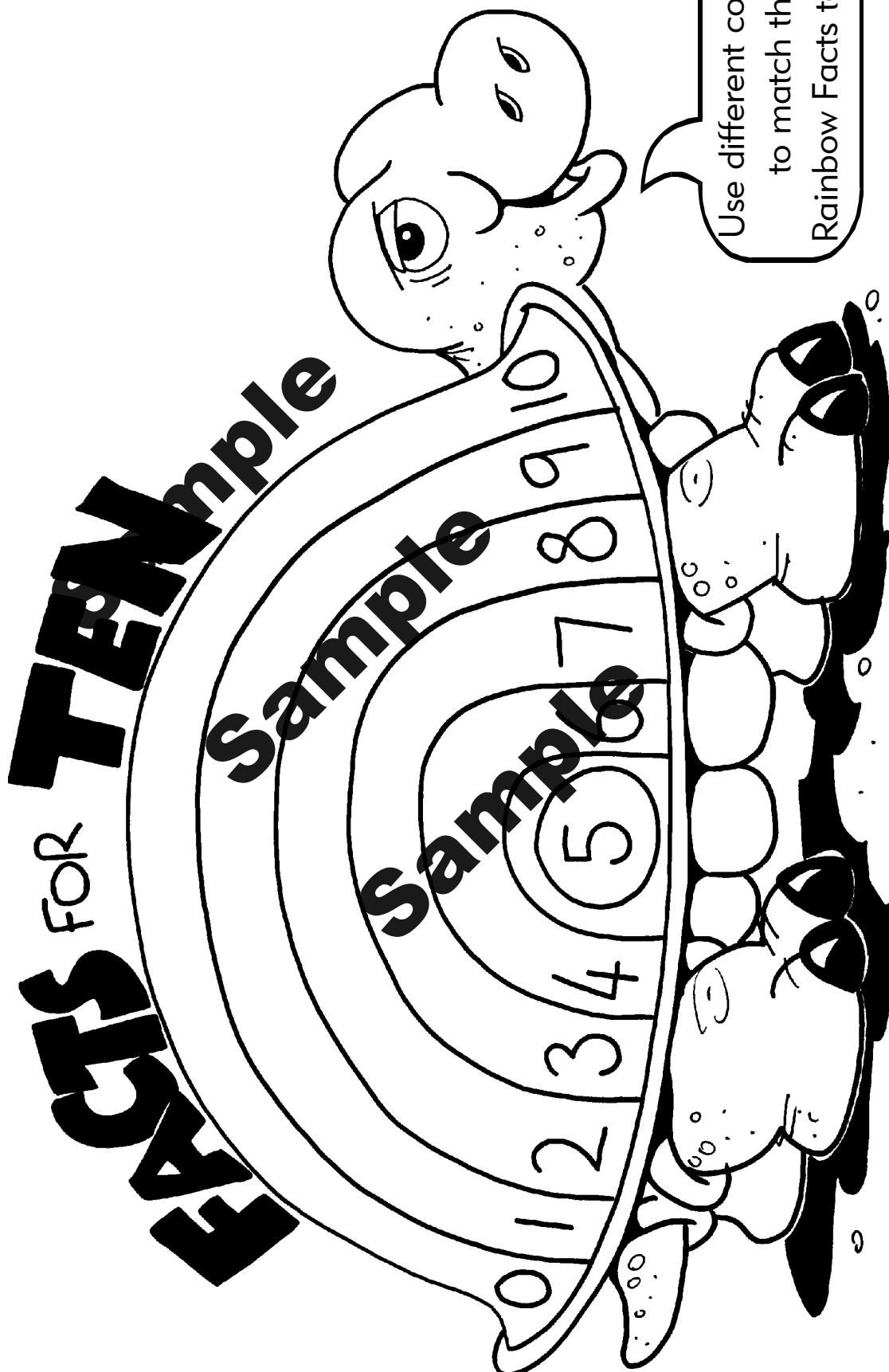
$$\begin{array}{r} 5 \dots \\ + \square \\ \hline 10 \end{array}$$

$$\begin{array}{r} 0 \\ + \square \\ \hline 10 \end{array}$$

$$\begin{array}{r} \square \\ + 2 \cdot \\ \hline 10 \end{array}$$

$$\begin{array}{r} 6 \dots \\ + \square \\ \hline 10 \end{array}$$

FACTS FOR TENP



AT: Number: Finds the missing number in a set of equations involving addition of whole numbers to 10.

Activity Sheets 9 and 10: Colour by Number

Materials

Colour by Number Activity Sheets 9 and 10; pencils; coloured pencils.

Teaching Points

Children complete the facts and follow instructions to colour in.

Pirate Sheet (Activity 9): Children also complete speech bubbles.

Space Alien Sheet (Activity 10): Children also draw an alien on the back.

Additional Activities

Magic Hat Game

Materials

Numbers 1 to 10 on cards, a hat or ice-cream container.

Teaching Points

Children stand in a circle. One child selects a card from the magic hat, e.g. 6. Teacher names an action, e.g. jumping. All children then jump 6 times. Other actions may be:

- hop;
- turn around;
- touch shoulders;
- clap;
- stamp;
- shake your hips;
- nod your head.

Ask children for other ideas.

Name: _____

Activity Sheet 9: Pirates

☆ Colour by numbers. Work out the answers to the maths problems below and follow the key to colour the pictures. Write what you think the pirates are saying in the balloons.

2 = black

10 = blue stripes

18 = blue

4 = pink

12 = green

20 = yellow

6 = orange

14 = brown

8 = purple

16 = red



AT: Number: Solves addition facts of whole numbers to 20; doubles whole numbers up to 10.