



Maths

Booklet

Multiplication



Willows

The aim of this booklet is to outline what is expected by the end of the year. We have included some of the strategies that will be used in class so that support is given in the same way.

We have included some games and activities that can be done at home to help them develop fluency and understanding.

Multiplication Expected targets.

- Recall times table facts, 2, 5 and 10
- Recall the related division facts.
- Be able to solve multiplication word problems, using materials, arrays, repeated addition, mental methods, and times table facts.
- Know that multiplication of two numbers can be done in any order

Willows.

I can recall my 2, 10 and 5 times table.



Understand that multiplication is the same as repeated addition.

$$5 \times 5 =$$

$$5 + 5 + 5 + 5 + 5 =$$

$$\text{Or } 2 \times 3 = 2 + 2 + 2$$

Use what they know to work out other facts.

I know that 2×3 is 6 so

$$3 \times 2 = 6$$

$$6 \div 2 = 3$$

$$6 \div 3 = 2$$

Fill in missing numbers using their times table facts.

$$2 \times ? = 8$$

$$5 \times 6 = ?$$

$$5 \times 10 = ?$$

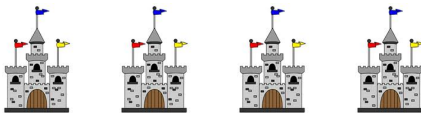
$$? \times 2 = 14$$

$$10 \times ? = 30$$

$$10 \times 7 = ?$$

Understand what the problem is asking.

10 knights live in a castle. How many knights would there be if there were 4 castles?



$$10+10+10+10=$$

$$10 \times 4 =$$

How many Lords would there be if there were 8 Castles?

Use related facts to solve calculations.

$$2 \times 1 = 2$$

$$5 \times 1 = 5$$

$$2 \times 10 = 20$$

$$5 \times 10 = 50$$

$$2 \times 100 = 200$$

$$5 \times 100 = 500$$

Games ideas you could play at home to help your child become confident with their 2, 5, 10 times tables.

Play multiplication tic, tac, toe

2x3	2x5	2x9
2x8	2x4	2x7
2x10	2x6	2x2

You will need two players and two coloured pens.

Player one to choose a times table from the grid and if they can tell you the answer they get to colour it in their colour. Player two has their go. The first player to get 3 in a row, column or diagonal, wins the game.

Once your child becomes confident in knowing one times table, then you can challenge them by having either two times tables mixed in the grid, or even all three.

2x5	5x5	10x9
5x7	2x8	5x4
10x6	2x10	10x5

LEGO Multiplication with Arrays:

Building arrays is another great visual for seeing multiplication as rows and columns. An array is a set of objects arranged in equal rows and columns. Obviously, any small object can be used to build arrays, but why not use LEGO bricks?



2x4=

2x3=

2x2=

You can give your child a set of bricks and challenge them to build arrays given various multiplication facts.

2x8 =

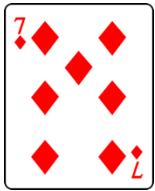
Cards

Use a pack of playing cards and take out Jack, Queen and King. You can play as just two players or it could be 3, 4 or 5 players.

Deal out the cards equally to each player.

Decide on your times table you want to practise.

Then take it in turns to turn over one of your cards and multiply it by the times table you are practising. For example,



$$\begin{array}{l} \times 2 = \\ \text{or } \times 5 = \\ \text{or } \times 10 = \end{array}$$

Use real objects

Using real objects - like pennies or marbles - see if your child can find how many they would need to give 2, 5 or 10 friends 2, 5 or 10 pennies each. Practise one times tables first making sure your child has enough pennies!

Play shops

Create a shop at home with your child. Price up some things to sell and role play buying and selling more than one of some items. The prices can be quite simple 2p, 5p or 10p. Have some paper and pens handy for trying out methods to work out the answers.

Loop the loop cards and Bingo boards can be downloaded from the internet. These are another fun way of recalling times table facts.

Useful links and websites.

<https://www.timestables.co.uk/rally.html>

www.rivertables.co.uk/activity

www.ictgames.com/resources.

<https://www.topmarks.co.uk/maths-games/hit-the-button>