

THIRD SPACE
LEARNING

Maths Games And Activities Pack

20 Fun Maths Challenges

Year 1

Maths Games And Activities Pack | Year 1

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Note to parents and carers

Your child works hard during school and we know they deserve some rest and relaxation when they're at home. BUT... this pack is here to help you with some ideas of how to bring maths into your home in a fun way. The challenges are not intended to be too much like 'work'. They should provide just a bit of a mathematical focus every now and then.

The activities are separated into individual activities and partner activities. We understand that pupils are not always able to complete activities with others and as such hope this will help you and your child select appropriate activities to complete.

Individual activities

1 Number Bond Mosaic (Addition)

How to play:

You will need

Your challenge:

Can you use your number pairs knowledge to reveal the picture hidden in the grid?

Colouring pencils or felt tips

- 1 Work out the answer to the calculation in each square using your knowledge of number pairs to 10 and 20.

What picture will you reveal?

Challenge 1 Sheet

2 Colour in each square based on the key at the top of the sheet.

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2 Number Bond Mosaic (Subtraction)

You will need Your challenge: Can you use your number pairs

Challenge 2 Sheet knowledge to reveal the picture hidden in the grid?

Colouring pencils or felt tips

What to do:

1 Work out the answer to the calculation in each square using your knowledge of number pairs to 10 and 20.

2 Colour in each square based on the key at the top of the sheet.

3 Get Arty!

Your challenge: Can you make a picture from at least one of each of these shapes: triangle, square, rectangle, circle?

What to do:

1 Can you make a picture from at least one of each of these shapes: triangle, square, rectangle, circle?

You will need

A piece of plain paper

Colouring pencils or crayons

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4 Making Money

You will need

Your challenge: Which coins can you find?

Coins

What to do:

A piece of plain paper

1 Find 10 coins in your house. 2 Draw the coins on your paper. 3 Can you put the coins in order from highest value (£2) to lowest value

(1p). 4 Challenge: How much money do you have in total? 5 How long?

1 6 How heavy?

You will need

Your challenge: Can you find your longest toy?

10 toys

What to do:

A piece of plain paper

Get 10 toys. 2 Compare your toys - which is the longest? 3 Put the toys in order from shortest to longest. 4 Draw your toys in order from shortest to longest.

You will need Your challenge: Can you find your heaviest toy?

10 toys

What to do:

A piece of plain paper
1 Get 10 toys. 2 Compare your toys - which is the heaviest? 3 Put the toys in order from lightest to heaviest. 4 Draw your toys in order from lightest to heaviest.

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7 My Morning

You will need Your challenge: Can you draw what you do in the morning?

Challenge 7 Sheet

What to do:

- 1 Draw the 4 first things you do in the morning on Challenge 7 Sheet.
- 2 Add the words first, next, then, after to order these events.

8 Shape Hunt (3-D)

Your challenge: Which 3-D shapes can you find in your house?

What to do:

- 1 Look at Challenge 8 Sheet where there is a list of 3-D shapes.
- 2 Find as many of these around your house as you can. Draw which items you find in the correct column.

You will need

Challenge 8 Sheet

9 Shape Hunt (2-D)

Your challenge: Which 2-D shapes can you find in your house?

What to do:

- 1 Look at Challenge 9 Sheet where there is a list of 2-D shapes (remember these are flat shapes - look for them in pictures, on books and on packages).
- 2 Find as many of these around your house as you can. Draw which

items you find in the correct column.

You will need

Challenge 9 Sheet

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Maths Games And Activities Pack | Year 1 in your house?

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10 House Count

What to do:

You will need

Your challenge: What do you have

1 Go round your house and count how many windows, doors, lights and chairs you have.

2 Count them using Challenge 10 Sheet.

Challenge 10 Sheet

How to play:

You will need

Pair activities

Digit Cards Resource Sheet

Two sheets of plain paper

A partner

11 Place Value Duel

Your challenge: Can you make a larger two-digit number than your partner?

1 Get your digit cards ready. Cut them out from the Digit Cards Resource Sheet.

2 Shuffle both sets of the digit cards. You and your partner must each draw two big lines on your sheet of paper like this:

3 Take it in turns to turn over a digit card and decide where in your number you are going to place the digit.

4 Put the digit in that position and tell your partner what value that digit has. For example, if you put a 2 in the tens column, you would say 'this 2 is worth 2 tens or twenty'.

5 Once you have placed a digit in your number, you can't move it! So, it's important to think about where you're putting the digit.
Play at least six rounds.

Who will be the champion?

I played with

The person who won was

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Maths Games And Activities Pack | Year 1 game!

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How to play:

12 Two-handed Maths, Paper, Scissors

You will need

Your challenge: Have you ever played 'Rock, Paper, Scissors'? Well this is a maths version of the same

A partner

- 1 On scissors, each of you puts out between 1 and 10 fingers.
- 2 You then need to race to add the number of fingers you have put out with the number of fingers your partner put out (e.g $4 + 2 = 6$) and be the first to call out the answer.
- 3 The player to call the correct answer first, wins a point.

4 Record who wins each ‘battle’ in a simple table; the first player to 10 points wins!

I played with

The person who won was

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How to play:

13 Number Bond Duel

You will need

Your challenge: Are you ready to have

A partner

Two sets of the Digit

Cards on Resource Sheet 1

- 1 This game is simple, but addictive! Shuffle two sets of digit cards from resource sheet 1 and put them in a pile between the two players.
- 2 Turn over the card in the middle, and for the first set of rounds, race to make 10. So if you turned over an 8 you'd need to shout out 2 as $8 + 2 = 10$.
- 3 The person who shouts out the correct answer first gets to keep the cards. Keep playing until there are no cards left in the centre. The player with the most cards wins!
- 4 Once you have played with making 10, play again, then play twice making 20.

First, I played number pairs to 10 duel against

and the person who won was

Then, I played number pairs to 10 duel against

and the person who won was

Next, I played number pairs to 20 duel against

and the person who won was

Then, I played number pairs to 20 duel against

and the person who won was

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14 Twos Tennis

Your challenge: Who can win a match of twos tennis?

How to play:

1 Stand opposite your partner. The first player picks a number between 1 and

5 to start with and says that out loud. The other player must add 2 to the number. This becomes your running total.

2 Now it's back to the first player who adds 2 to the running total, and so on.

You win when:

- You are the first player to say a number over 20
- Your partner makes a mistake
- Your partner says 'umm'

You will need A

- Your partner takes more than 3 seconds to answer.

partner

Play at least 6 matches with your partner. Who will win the most games?

I played with

The person who won was

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15 Matching Pairs (Number Pairs)

You will need

What to do:

Your challenge: Find the pairs, with

- 1 Cut out the cards from Challenge Sheet 15. Place the answer cards (the cards with the shaded background) spread out face down on one half of your playing area. Then place the question cards (the non-shaded cards) face down on the other half of your playing area. You need to keep the questions and answers separate.
- 2 Take it in turns with your partner to turn over a question card, and then an answer card. If the answer matches the question, you get to keep the cards and take another go. If it does not, turn them back over, and your partner takes their turn.
- 3 Continue playing until all questions and answers have been matched.
The player with the most cards at the end of the game wins.

Play the game twice. Did you get a different winner each time?

The first time I played the game _____
won.

The second time I played the game _____
won.

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16 Tug of War

You will need Your challenge: Why not play a maths version of Tug of

Digit Cards Resource Sheet

War?

A partner

How to play:

Paper to keep a track of your score

1 First, decide which player is going to 'add' and which player is going to 'subtract', then shuffle the digit cards into one pile. Write down the number 14 at the top of your piece of paper.

2 The player who is adding starts first. They turn over 1 digit card and the player who is adding adds these to 14 (e.g. $14 + 2 = 16$). The rest of this calculation is your new running total.

3 The player who is subtracting goes next. They turn over a digit and

subtract it from the running total.

4 Keep playing in the same way, taking it in turns to make a number and add or subtract it. If the player who is adding gets above 30 they win, and if the player who is subtracting gets below 2 they win!

Who will win the tug of war?

I played with

The person who won was

17 3-D Shape Hunt

You will need Your challenge: Can you find the 3-D shapes before your partner?

A partner

How to play:

1 Start at the same time. You each need to find the following 3-D shapes in real life objects around the house before your partner. Who will be the quickest?

You need to find: 3 blue cuboids, 3 green cubes, 4 red cylinders.

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You will need

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18 Number buzz

A partner

Your challenge: You count to 20 with

saying 5, 10 or 15? What to do:

1 Starting from 1, you and your partner take it in turns to say one, two or three numbers (following on from what has been said before).

2 If you are supposed to say 5, 10 or 15, instead you say buzz.

3 If you say 5, 10 or 15 (not buzz), the other person wins.

For example: Person 1
says 1, 2 Person 2 says 3,
4, buzz Person 1 says 6

You will need

19 The Great Maths Bake Off

A recipe for something yummy

Your challenge: Bake something tasty
find the hidden maths.

Ingredients

An adult to help you

What to do:

1 Cooking is so much fun, but did you know it involves a lot of amazing
maths too?

2 Work with an adult to bake something yummy. Need an idea of some
recipes? Head to bit.ly/TSLrecipes to get some ideas. Have fun in the
kitchen, and then fill in the details below. What did you make, and
what maths skills did you think you used!?

I made

The maths I used was

You will need

Challenge 20 Sheet A partner A counter each (you could make your own out of paper) Plain paper for any working out

20 Unicorns Versus Giants

Your challenge: Who will win in the battle between unicorn and giant?

How to play:

- 1 Decide who will be the unicorn and who will be the giant and place the grid from Challenge 20 Sheet in between you.
- 2 Unicorn - you are trying to get to the Giant's House.
- 3 Giant - you are trying to stop the unicorn. You do this by landing on the same hexagon as the unicorn.
- 4 Unicorn starts. Place your counter on one of the hexagons on the 'Unicorn's House' side and carry out the calculation in the hexagon. If the calculation is correct (your partner needs to check and agree) you get to move to that hexagon. Then the giant does the same but starting at the 'Giant's House'.
- 5 Carry on like this, moving one hexagon at a time. If you get the answer wrong, you don't move.
- 6 Try to play the game at least two times.

The first time I played, I played against

and the person who won was

The second time I played, I played against

and the person who won was

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Challenge 1 Sheet Number Bond 1

Answer the questions in the squares below. Colour in the squares with the colours based on your answer. What picture will you make? Red: 2, 3, 4, 5, 16, 17, 18, 19
Blue: 6, 7, 8, 9, 10, 11, 12 Green: 13, 14, 15, 20 Brown: 1, 0

$$4 + ? = 10 \quad ? + 2 = 10 \quad ? + 9 = 20 \quad 10 = ? + 1 \quad 0 + ? = 10 \quad 12 + ? = 20 \quad 20 + 0 = ? \quad 3 + ? = 10$$

$$20 = 8 + ? \quad 10 = 0 + ? \quad 13 + ? = 20 \quad 10 + ? = 10 \quad 20 = 9 + ? \quad 5 + ? = 20 \quad ? + 4 = 10 \quad 20 = 11 + ?$$

$$10 = 3 + ? \quad 5 + ? = 10 \quad 20 = 1 + ? \quad 9 + ? = 10 \quad 20 = 6 + ? \quad 3 + ? = 20 \quad ? + 10 = 20 \quad 8 + ? = 20$$

$$? + 2 = 20 \quad 6 + ? = 10 \quad ? + 1 = 20 \quad 7 + ? = 10 \quad 4 + ? = 20 \quad 2 + ? = 20 \quad ? + 8 = 10 \quad ? + 11 = 20$$

$$? + 4 = 20 \quad 20 = 2 + ? \quad 10 = ? + 6 \quad 20 = 15 + ? \quad 20 = ? + 3 \quad ? + 7 = 20 \quad 10 = 5 + ? \quad ? + 8 = 20$$

$$20 = 18 + ?? + 16 = 20 \quad ? + 7 = 10 \quad 20 = 4 + ? \quad 6 + ? = 20 \quad 20 + 0 = ? \quad 10 = ? + 7 \quad 14 + ? = 20$$

$$20 = ? + 4 \quad 10 = 8 + ? \quad ? + 15 = 20 \quad 20 = ? + 3 \quad 5 + ? = 20 \quad 7 + ? = 20 \quad 3 + ? = 20 \quad 11 + ? = 20$$

$$20 = 9 + ? \quad ? + 5 = 10 \quad 1 + ? = 20 \quad 16 + ? = 20 \quad 0 + ? = 20 \quad 20 = ? + 1 \quad 10 + ? = 20 \quad ? + 13 = 20$$

$$2 + ? = 10 \quad 4 + ? = 10 \quad 8 + ? = 10 \quad 20 = ? + 2 \quad 10 = ? + 7 \quad ? + 14 = 20 \quad 20 = ? + 9 \quad 20 = 8 + ?$$

$$20 = ? + 10 \quad 3 + ? = 10 \quad 20 = ? + 8 \quad 10 = ? + 2 \quad 9 + ? = 20 \quad ? + 12 = 20 \quad 20 = 13 + ? \quad 10 = 1 + ?$$

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Solve the questions in the squares below. Colour in the squares used on your answer. What picture will you make?

Challenge 2 Sheet Number Bond 17, 8, 9 Brown: 10, 11, 12, 13, 14 Blue: 15, 16, 17

$$10 - ? = 1 \quad 10 - 4 = 20 - 18 = 20 - 11 = 20 - ? =$$

$$20 - 8 = 10 - 6 = 20 - 13 = 10 - ? = 10 \quad 20 - 7 =$$

$$10 - 2 = 10 - 9 = 10 - ? = 7 \quad 20 - ? = 8 \quad 20 - 15 =$$

$$10 - 8 = 10 - ? = 5 \quad 20 - ? = 7 \quad 10 - 0 = 20 - ? =$$

$$20 - 16 = 20 - 9 = 10 - ? = 3 \quad 20 - ? = 9 \quad 20 - 6 =$$

$$20 - 0 = 20 - 1 = 20 - 4 = 20 - ? = 10 \quad 20 - ? = 8 \quad 20 - 3 =$$

$$20 - ? = 3 \quad 20 - 5 = 20 - 2 = 20 - ? = 6 \quad 20 - 7 = 20 - 1 = 20$$

$$20 - ? = 1 \quad 20 - ? = 2 \quad 20 - ? = 0 \quad 20 - 8 = 20 - 9 = 20 - 3 =$$

$$20 - ? = 5 \quad 20 - 19 = 20 - 2 = 20 - 10 = 20 - 6 = 20 - 5 = 1$$

$$20 - ? = 18 \quad 20 - ? = 14 \quad 20 - ? = 11 \quad 20 - ? = 16 \quad 10 - 3 = 10 -$$

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$$20 = 8 + 12 \quad 10 = 0 + 10 \quad 13 + 7 = 20 \quad 10 + 0 = 10 \quad 20 = 9 + 11$$

Challenge 1 Sheet Answers

$$10 = 3 + 7 \quad 5 + 5 = 10 \quad 20 = 1 + 19 \quad 9 + 1 = 10 \quad 20 = 6 + 14 \quad 3 +$$

The picture shows a red and green apple with a yellow background. Red: 2, 3, 4, 5, 16, 17, 18, 19
Green: 13, 14, 15, 20 Brown: 1, 0

$$18 + 2 = 20 \quad 6 + 4 = 10 \quad 19 + 1 = 20 \quad 7 + 3 = 10 \quad 4 + 16 = 20 \quad 2$$

$$16 + 4 = 20 \quad 20 = 2 + 18 \quad 10 = 4 + 6 \quad 20 = 15 + 5 \quad 20 = 17 + 3 \quad 1$$

$$4 + 6 = 10 \quad 8 + 2 = 10 \quad 11 + 9 = 20 \quad 10 = 9 + 1 \quad 0 +$$

$$20 = 18 + 2 \quad 4 + 16 = 20 \quad 3 + 7 = 10 \quad 20 = 4 + 16 \quad 6 + 14 = 20 \quad 2$$

$$20 = 16 + 4 \quad 10 = 8 + 2 \quad 5 + 15 = 20 \quad 20 = 17 + 3 \quad 2 + 8 = 10 \quad 4 + 6 = 10 \quad 8 + 2 = 10 \quad 20 = 18 + 2 \quad 10 = 3 + 7 \quad 6 + 14 = 20$$

$$20 = 9 + 11 \quad 5 + 5 = 10 \quad 1 + 19 = 20 \quad 16 + 4 = 20 \quad 20 = 10 + 10 \quad 3 + 7 = 10 \quad 20 = 12 + 8 \quad 10 = 8 + 2 \quad 9 + 11 = 20 \quad 8 + 12 = 20$$

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$$10 - 8 = 2 \quad 10 - 5 = 5 \quad 20 - 13 = 7 \quad 10 - 0 = 10 \quad 20 - 7 = 13 \quad 20 - 16 = 4$$

Challenge 2 Sheet Answers

$$20 - 9 = 11 \quad 10 - 7 = 3 \quad 20 - 11 = 9 \quad 20 - 6 = 14 \quad 10 - 17 = 3$$

The picture shows an apple tree with a fallen
grass. Red: 0, 1 Green: 2, 3, 4, 5, 6, 7, 8, 9
16, 17, 18, 19, 20

$$20 - 0 = 20 \quad 20 - 1 = 19 \quad 20 - 4 = 16 \quad 20 - 10 = 10 \quad 20 - 12 = 8 \quad 20 - 15 = 5$$

$$20 - 17 = 3 \quad 20 - 5 = 15 \quad 20 - 2 = 18 \quad 20 - 14 = 6 \quad 20 - 7 = 13 \quad 20 - 19 = 1$$

$$10 - 9 = 1 \quad 10 - 4 = 6 \quad 20 - 18 = 2 \quad 20 - 11 = 9 \quad 20 - 10 = 10 \quad 20 - 18 = 2 \quad 20 - 20 = 0 \quad 20 - 8 = 12 \quad 20 - 9 = 11$$

$$20 - 8 = 12 \quad 10 - 6 = 4 \quad 20 - 13 = 7 \quad 10 - 0 = 10 \quad 20 - 15 = 5 \quad 20 - 19 = 1 \quad 20 - 2 = 18 \quad 20 - 10 = 10 \quad 20 - 6 = 14 \quad 20 - 17 = 3$$

$$10 - 2 = 8 \quad 10 - 9 = 1 \quad 10 - 3 = 7 \quad 20 - 12 = 8 \quad 20 - 2 = 18 \quad 20 - 6 = 14 \quad 20 - 9 = 11 \quad 20 - 4 = 16 \quad 10 - 3 = 7 \quad 10 - 17 = 3$$

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dd the words first, next, then, after to order these e

Challenge 7 Sheet My Morning

First Next Then After

Draw the 4 first things you do in the mornin

Challenge 8 Sheet Shape Hunt (3-D)

Look at the list of 3-D shapes. Find as many of these around your house as you can.
Draw which items you find in the correct column.

Cube Cuboid Cylinder

Challenge 9 Sheet Shape Hunt (2-3)

Look at the list of 2-D shapes (remember these are flat shapes - look for them in pictures, on books and on packages). Find as many of these around your house as you can. Draw which items you find in the correct column.

Square Rectangle Triangle

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Challenge 10 Sheet House Count

Go round your house and count how many windows, doors, lights and chairs you have. Count them using this sheet.

Item Count

Windows

Doors

Lights

Chairs

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Challenge 15 Sheet Matching Pair

$$1 + 9 = 8 + 2 = 4 + 6 = 5 + 5 = 12 + 8 =$$

$$19 + 1 = 6 + 4 = 7 + 13 = 11 + 9 = 3 + 7 =$$

$$5 + 15 = 16 + 4 = 10 \ 10$$

$$10 \ 10 \ 10 \ 10 \ 20$$

$$20 \ 20 \ 20 \ 20 \ 20$$

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Unicorn's House

Challenge 18 Sheet Unicorns vs G

$$7 + 3 = 20 + 1 = 20 - 5 = 10 + 2 = 2 + 8 = 20 + 9 = 10 + 10 =$$

$$20 - 7 = 1 + 9 = 20 - 1 = 3 + 7 = 4 + 6 = 20 + 5 = 10 - 9 =$$

$$20 + 7 = 10 - 5 = 20 - 17 = 10 + 8 = 6 + 6 = 7 + 8 = 20 - 3 =$$

$$20 - 10 = 11 + 3 = 4 + 6 = 7 + 10 = 10 - 8 = 2 + 4 = 9 + 1 =$$

$$8 + 6 = 10 + 3 = 20 - 6 = 20 - 12 = 10 - 3 = 20 - 12 = 5 + 6 =$$

$$7 + 6 = 20 + 12 = 20 + 14 = 20 - 9 = 2 + 8 = 10 - 9 = 8 + 8 =$$

$$10 + 6 = 20 - 6 = 20 - 10 = 15 + 5 = 11 + 9 = 10 + 6 = 10 - 2 =$$

$$10 + 10 = 20 + 5 = 20 - 16 = 9 + 1 = 7 + 3 = 5 + 5 = 10 - 6 =$$

Giant's House

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Digit Cards Resource Sheet

8 9 0 1

0 1 2 3

2 3 4 5

4 5 6 7

Digit Cards Resource Sheet

4 5 6 7

6 7 8 9

8 9

0 1 2 3

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Do you have a group of pupils who need a boost in maths this term?

Each pupil could receive a personalised lesson every week from our specialist 1-to-1 maths tutors.

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hello@thirdspacelearning.com

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