Remote Maths Ideas

Ideas for Home Learning for Reception - Y6

Introduction

This booklet has been produced as a response to the closure of most schools due the Covid 19 pandemic.

It offers a range of resources and ideas to support remote learning for your pupils.

Where possible, resources and ideas have been linked to National Curriculum and EYFS programmes of study to support different year groups. Although remote learning may not be as effective as learning from The National Curriculum at school, this is an attempt to prevent too much of a slide occurring with year group content.

Please let me know how you get on and share your experiences.

Sarah Luty
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Useful Mathematics Websites for Home Learning

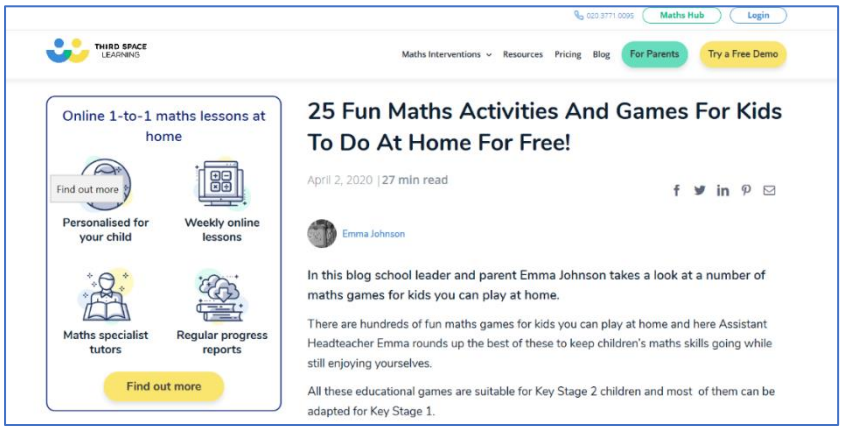
Third Space Learning

https://thirdspacelearning.com/blog/home-learning-resources/

This site has a range of activities and resources for supporting children with their maths learning at home. Some resources require a free sign-up. The site also offers interventions for schools which require paying for and they have recently introduced a parents' section which requires payment. However, there are a lot of free materials on this site.

25 Fun Maths Activities and Games

https://thirdspacelearning.com/blog/fun-maths-games-activities-for-kids/



There are 25 games for parents to play with children but some very clear instructions which as a teacher they can be copied and sent out to parents.

Hands on maths game 2: The 24 Game

This is a very simple game that will help your child practice their arithmetic skills, and it is a game they can play with a group of friends.

What you need to play:

- A pack of playing cards (The number cards only)

How to play:

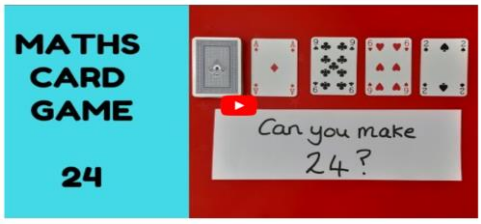
Step 1: Each player picks 4 number cards at random from the pile.

Step 2: They then need to find a way to manipulate the 4 digits using any of the 4 operations (+, -, x, ÷) so the end result is 24 For example, if they chose 4, 7, 8, 8, they could do (7 – (8÷8) x 4 = 24)

Step 3: If nobody is able to reach 24, you can make it closest wins!

The 24 Game

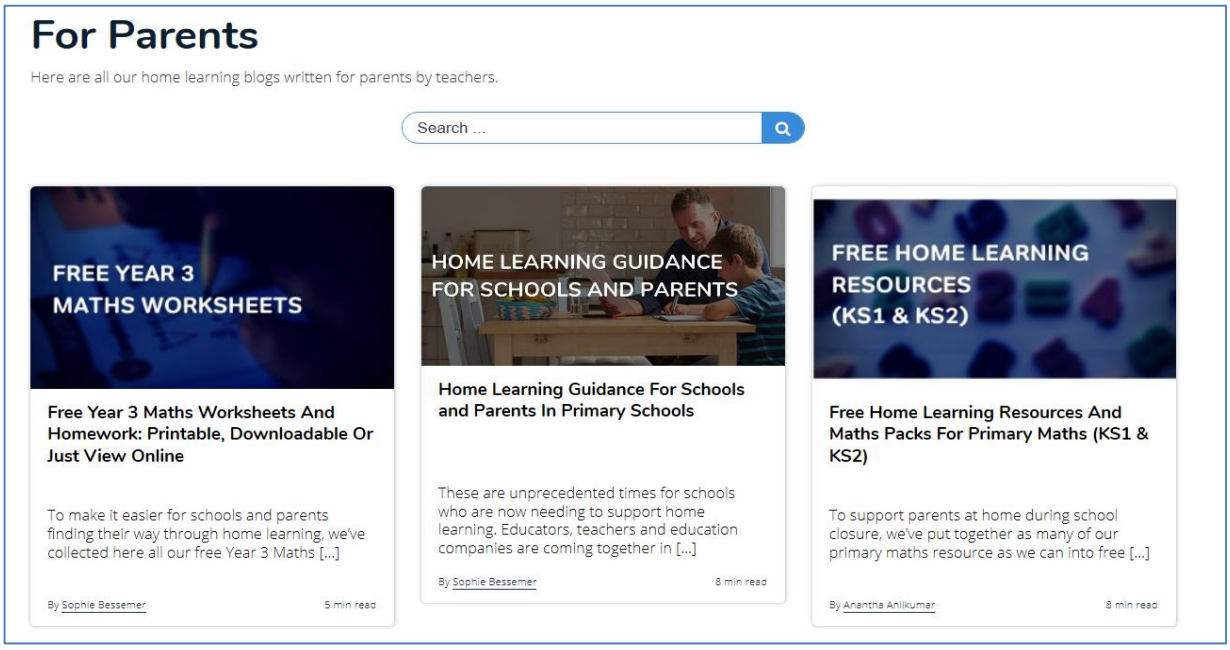
All that's needed is a pack of cards!!



Blog for Parents

https://thirdspacelearning.com/blog/category/for-parents/

This section includes lots of blogs written for parents but included in the blogs are lots of useful links that teachers can use.



One particularly useful blog is Free Home learning resources for KS 1 and 2

https://thirdspacelearning.com/blog/home-learning-resources/

Within this blog there is a particularly useful section which includes guides for parents to help their children with maths at home. Included in this are useful activities. They include activities that teachers are familiar with, but families may not be.

Year 2 Maths

Year 3 Maths

Year 4 Maths

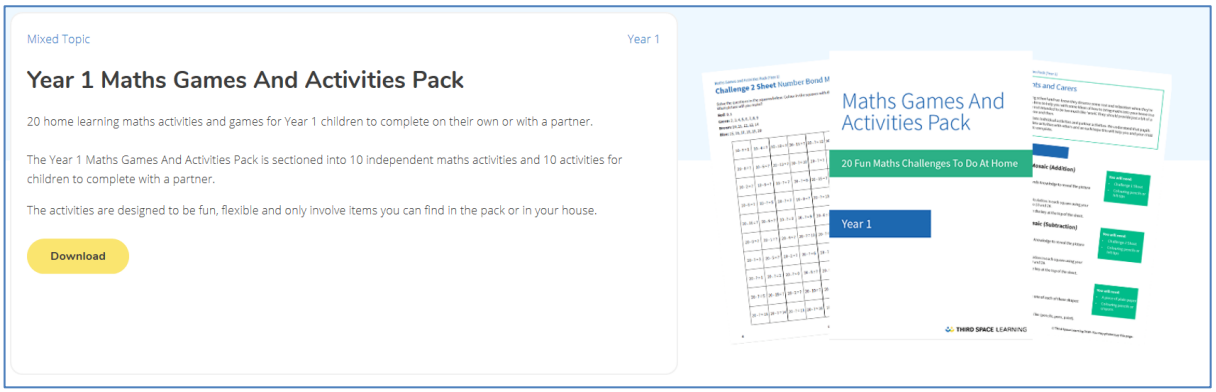
Year 5 Maths

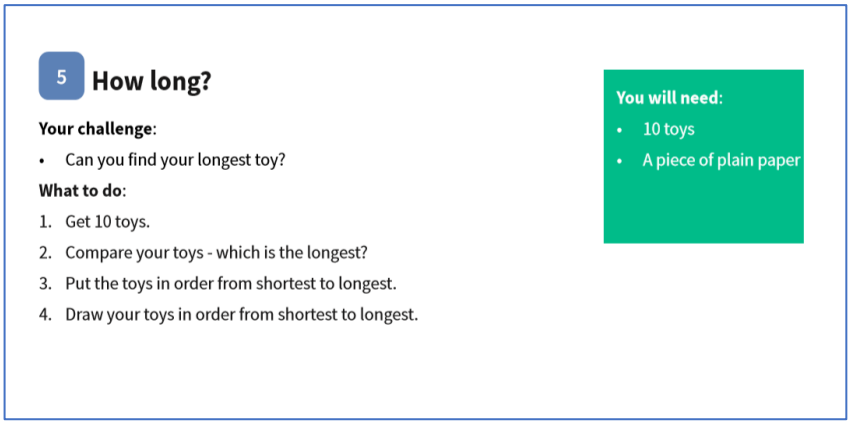
Year 6 Maths

Resource Library

https://mathshub.thirdspacelearning.com/resources

This section is full of lots of different resources for different age groups. An example of this is the Year 1 Maths Games and Activities





A simple activity from the year 1 pack. There are challenge activity sheets to support many of the activities

There are activity packs for each year group.

https://mathshub.thirdspacelearning.com/resources/1953/Year-1-Maths-Games-And-Activities-Pack

https://mathshub.thirdspacelearning.com/resources/1952/Year-2-Maths-Games-And-Activities-Pack

https://mathshub.thirdspacelearning.com/resources/1948/Year-3-Maths-Games-And-Activities-Pack

https://mathshub.thirdspacelearning.com/resources/1947/Year-4-Maths-Games-And-Activities-Pack

https://mathshub.thirdspacelearning.com/resources/1946/Year-5-Maths-Games-And-Activities-Pack

https://mathshub.thirdspacelearning.com/resources/1946/Year-5-Maths-Games-And-Activities-Pack

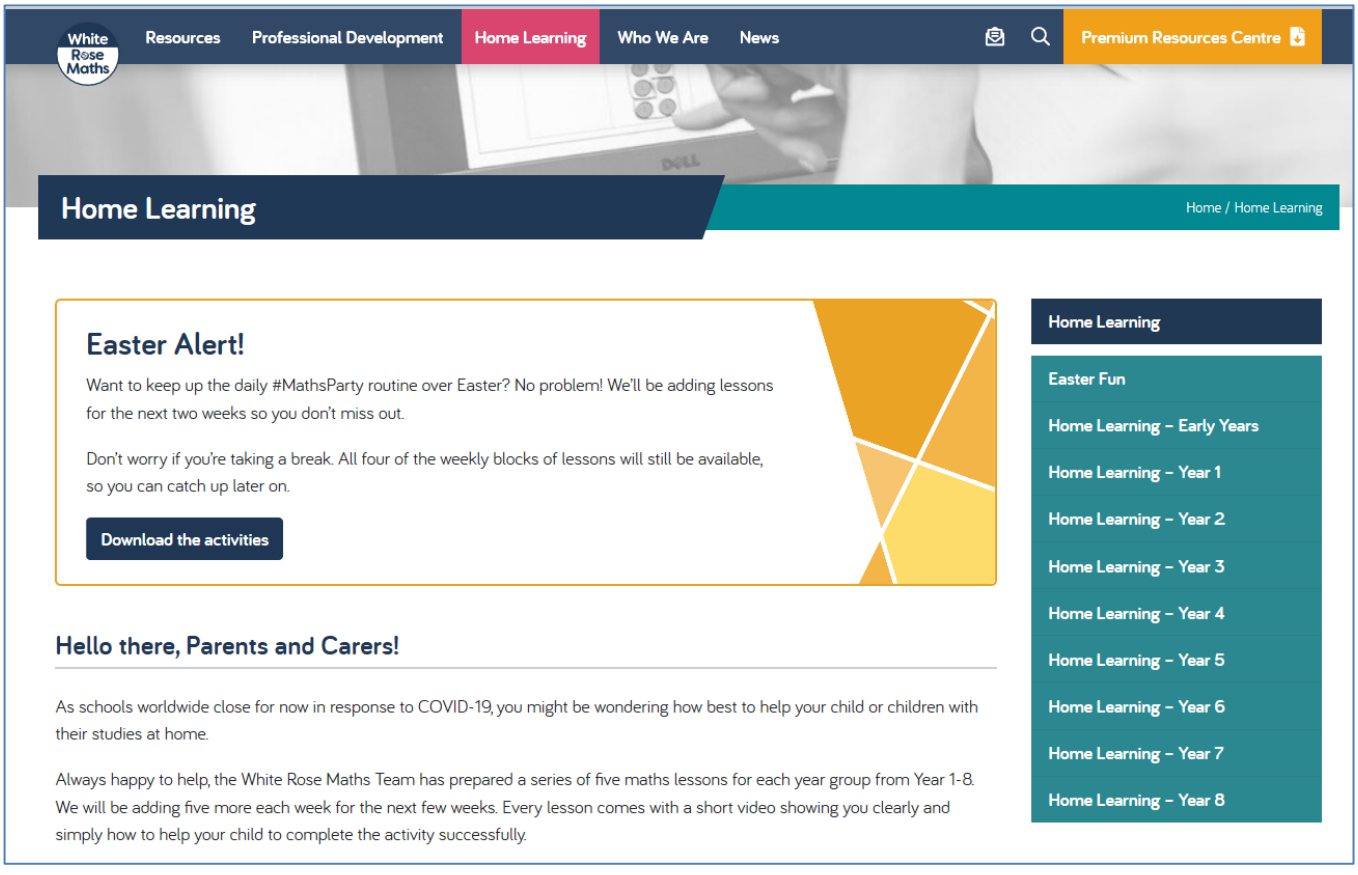
Maths Dictionary

Complete primary maths dictionary of mathematical terms taught at EYFS, KS1 & KS2
https://thirdspacelearning.com/blog/primary-maths-dictionary/

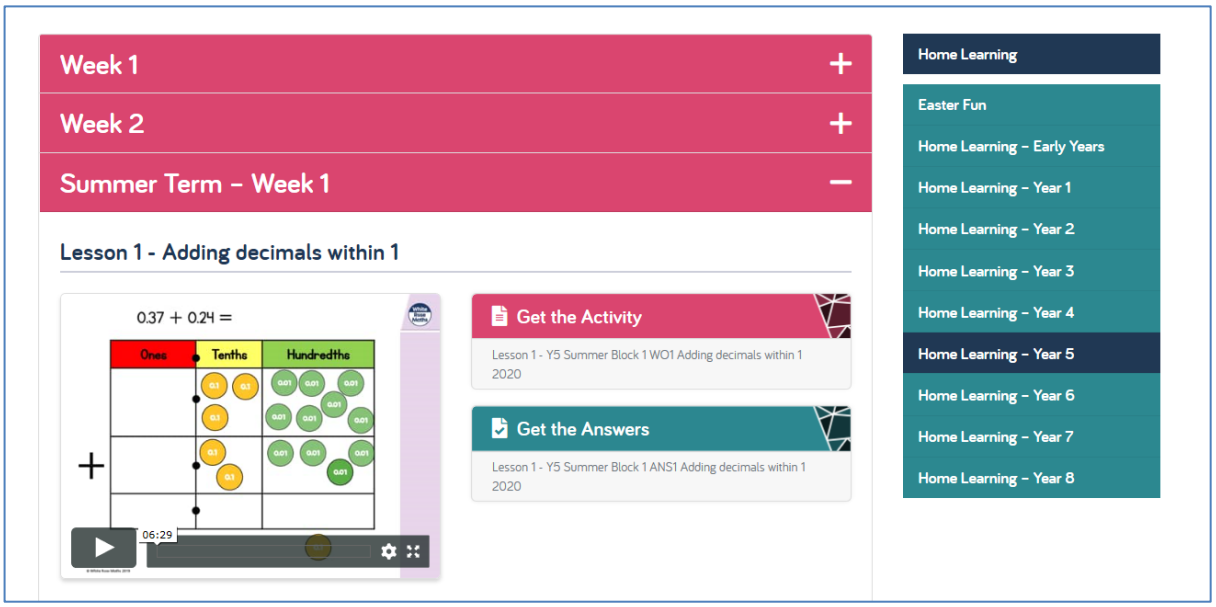
White Rose Maths
https://whiterosemaths.com

White Rose Home Learning
https://whiterosemaths.com/homelearning/

White Rose have introduced a section on home learning



Within each year group there are a series of interactive lesson which are supported by questions. e.g. below is an example of year 5.



The children need to access the activity section as this supports the powerpoint. They then click on the arrow and the slides start with commentary. There are regular breaks for the children to do an activity to reinforce the concept being worked on. As there are more lessons going regularly on-line, teachers can select the topic they wish to cover.

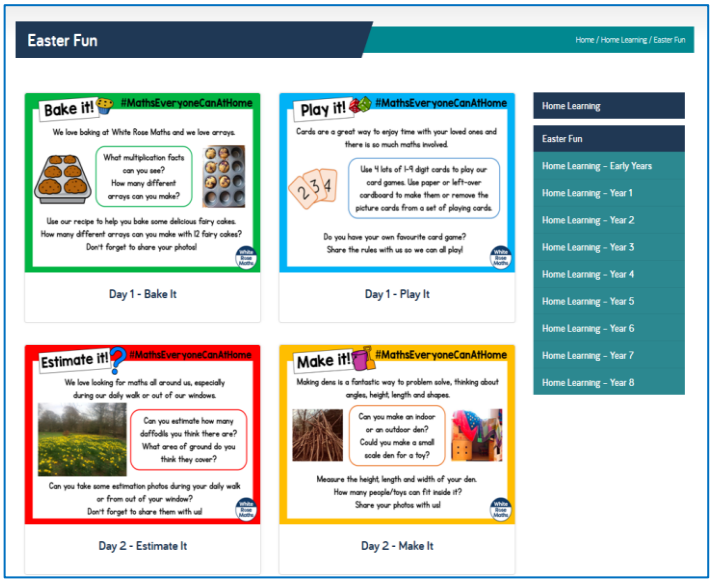
White Rose Power Maths

White Rose have made power maths available for the Spring term for children and parents to access on- line. https://whiterosemaths.com/homelearning/

White Rose Easter Activities

https://whiterosemaths.com/homelearning/easter-fun/

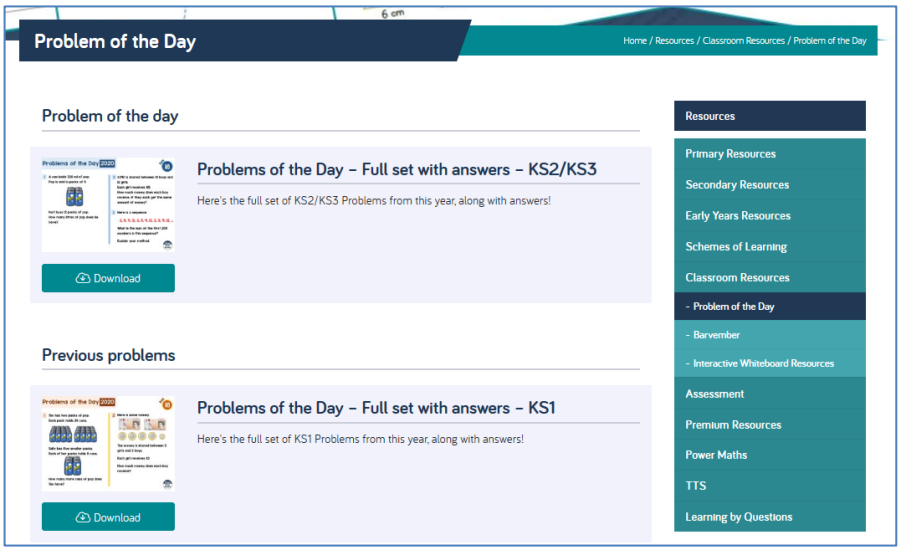
White Rose have produced different activities that were available to do over Easter. The activities could still be used at home as mathematics activities.



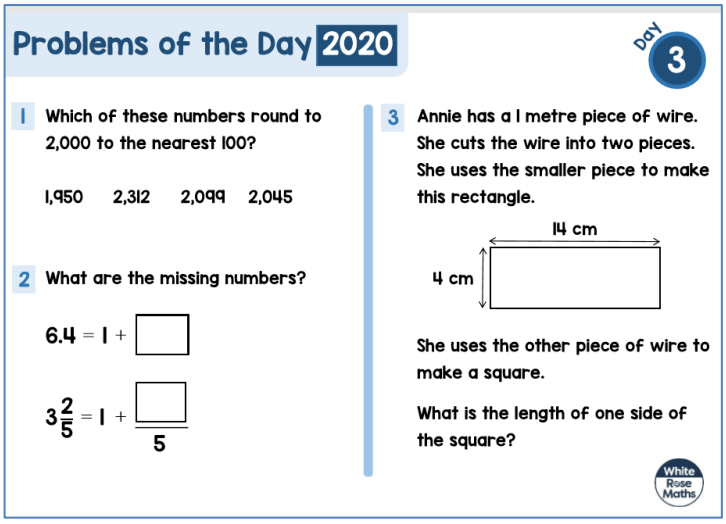
White Rose Problem of the Day

https://whiterosemaths.com/resources/classroom-resources/problems/

Don't forget the problems of the day 2020. These can be downloaded and problems could be selected to support different learning areas. There are also a set of slides with answers!



Here is an example of KS2 Day 3 2020



Problems of the Day 2020

Day 3

1 Which of these numbers round to 2,000 to the nearest 100?

1,950 2,312 2,099 2,045

2 What are the missing numbers?

$6.4 = 1 + \square$

$3\frac{2}{5} = 1 + \frac{\square}{5}$

3 Annie has a 1 metre piece of wire. She cuts the wire into two pieces. She uses the smaller piece to make this rectangle.

She uses the other piece of wire to make a square.

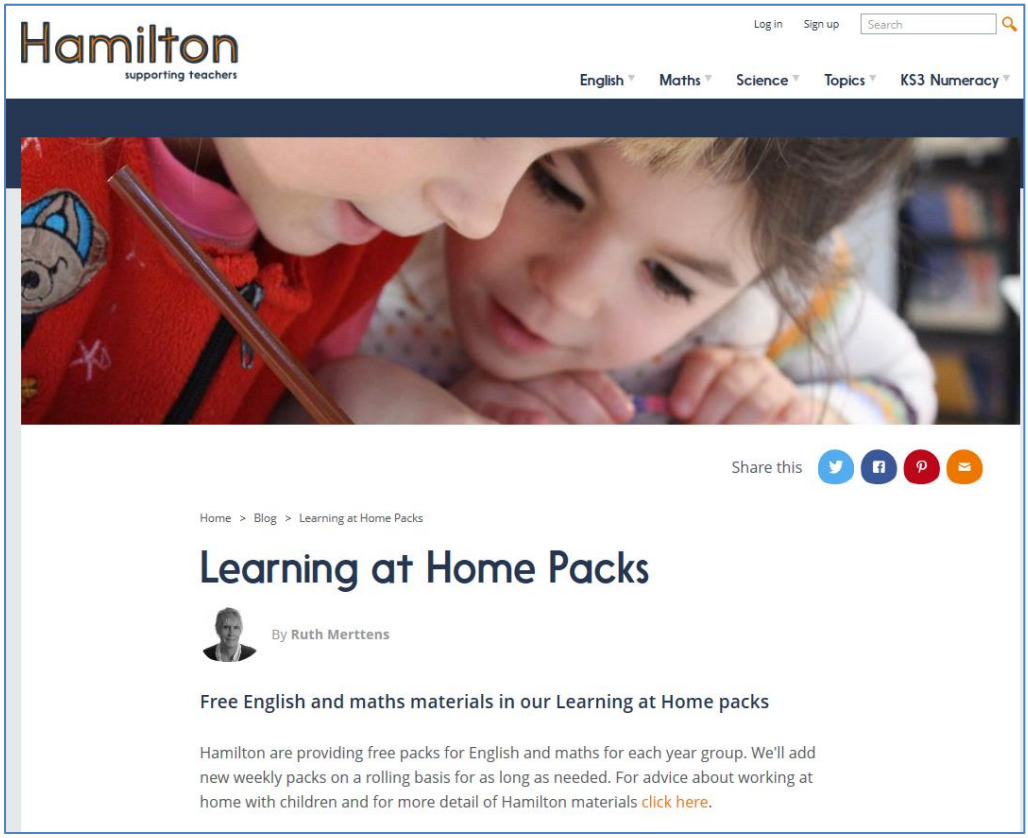
What is the length of one side of the square?

White Rose Maths

Hamilton Home Learning Packs - Mathematics

https://www.hamilton-trust.org.uk/blog/learning-home-packs/

Hamilton have produced downloadable resource packs with teacher guidance. There is a week's worth of resources provided for each year group.



Learning at Home Packs for Reception

- Reception - Play Activities (Last updated 7th April)
- Reception - Week 1 | Week 2 | Week 3

Learning at Home Packs for Maths

- Year 1 Maths - Week 1 | Week 2 | Week 3 | Week 4 | Week 5
- Year 2 Maths - Week 1 | Week 2 | Week 3 | Week 4 | Week 5
- Year 3 Maths - Week 1 | Week 2 | Week 3 | Week 4 | Week 5
- Year 4 Maths - Week 1 | Week 2 | Week 3 | Week 4 | Week 5
- Year 5 Maths - Week 1 | Week 2 | Week 3 | Week 4 | Week 5
- Year 6 Maths - Week 1 | Week 2 | Week 3 | Week 4

Each week includes teachers notes, PowerPoints and activities. Here is an example from year 3 week 3 on fractions.

TEACHER NOTES

MATHS Learn at Home packs: Year 3, Week 3

These notes are intended for teachers who are using these materials to continue to teach their class using any form of online file sharing, alongside group chats/ video conferencing, etc.

The 'timetable' for this week's teaching and learning is as follows

- **Day 1** – *Provide some teacher input*, using the PowerPoint presentation*. If children can access this in PowerPoint, they will hear the voice-over teaching. Children then proceed with the Home Pack as usual.
- **Day 2** – Children can work through this, drawing on the teaching from yesterday.
- **Day 3** – Children work through this but if possible, discuss the Mastery Questions in '*Check your Understanding*' in *an online group tutorial*. Those who struggle can do the Mild sheet and the first Mastery Question.
- **Day 4** – *Provide some teacher input*, using the PowerPoint presentation*. If children can access this in PowerPoint, they will hear the voice-over teaching. Children then proceed with the Home Pack as usual.
- **Day 5** – Children continue working through this but will benefit from some *teacher input* when they are doing the Mastery Questions in '*Check your Understanding*'.

Day 1 – Use a fraction wall to compare pairs of fractions
Day 2 – Use a fraction wall to order a group of fractions
Day 3 – Pairs of fractions that add to 1
Day 4 – Write and draw corresponding analogue and digital clock times
Day 5 – Match analogue and digital clock times; $^1/_4$-hour increments

Structure of materials

	PowerPoint lesson	Learning Reminders	Practice Sheet(s)	Problem solving task	A bit Stuck?	Check your understanding
Day 1	✓	✓	✓		✓	
Day 2		✓	✓	✓	✓	
Day 3		✓	✓			✓
Day 4	✓	✓	✓	✓	✓	
Day 5		✓	✓		✓	✓

**PowerPoint presentations are provided. You can use your phone to film yourself going through these on a laptop. OR parents and children can access them at home, preferably in PowerPoint but also as images on a tablet. You can then talk these through. Or you may have a clever online way,*

Year 3: Week 3, Day 4

Write and draw analogue and digital clock times

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.

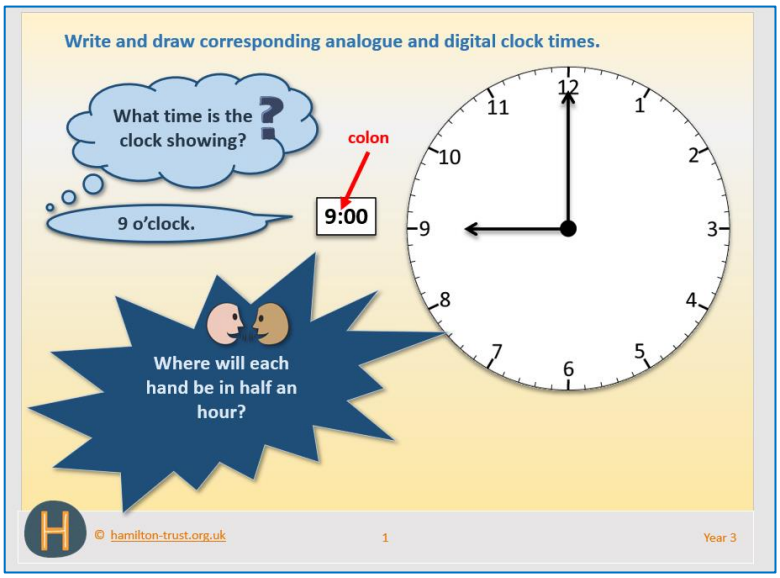
OR start by carefully reading through the **Learning Reminders**.
They come from our *PowerPoint* slides.

2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**

4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

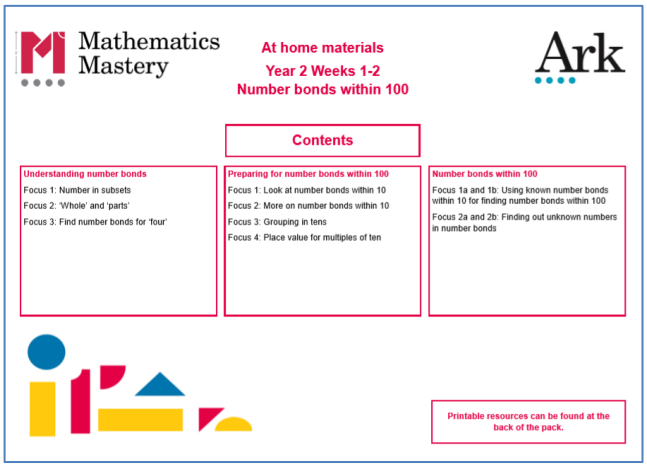
® Hamilton Trust



Mathematics Mastery

https://www.mathematicsmastery.org/free-resources

Mathematics mastery have designed a selection of resources to use at home. Within the maths packs there are guidance notes and pupil packs. There are currently up to ten weeks' worth of packs for reception to year 6. There are also some for Key stage 3.


Mathematics Mastery

At home materials
Year 2 Weeks 1-2
Number bonds within 100

Ark

Contents

Understanding number bonds
Focus 1: Number in subsets
Focus 2: 'Whole' and 'parts'
Focus 3: Find number bonds for 'four'

Preparing for number bonds within 100
Focus 1: Look at number bonds within 10
Focus 2: More on number bonds within 10
Focus 3: Grouping in tens
Focus 4: Place value for multiples of ten

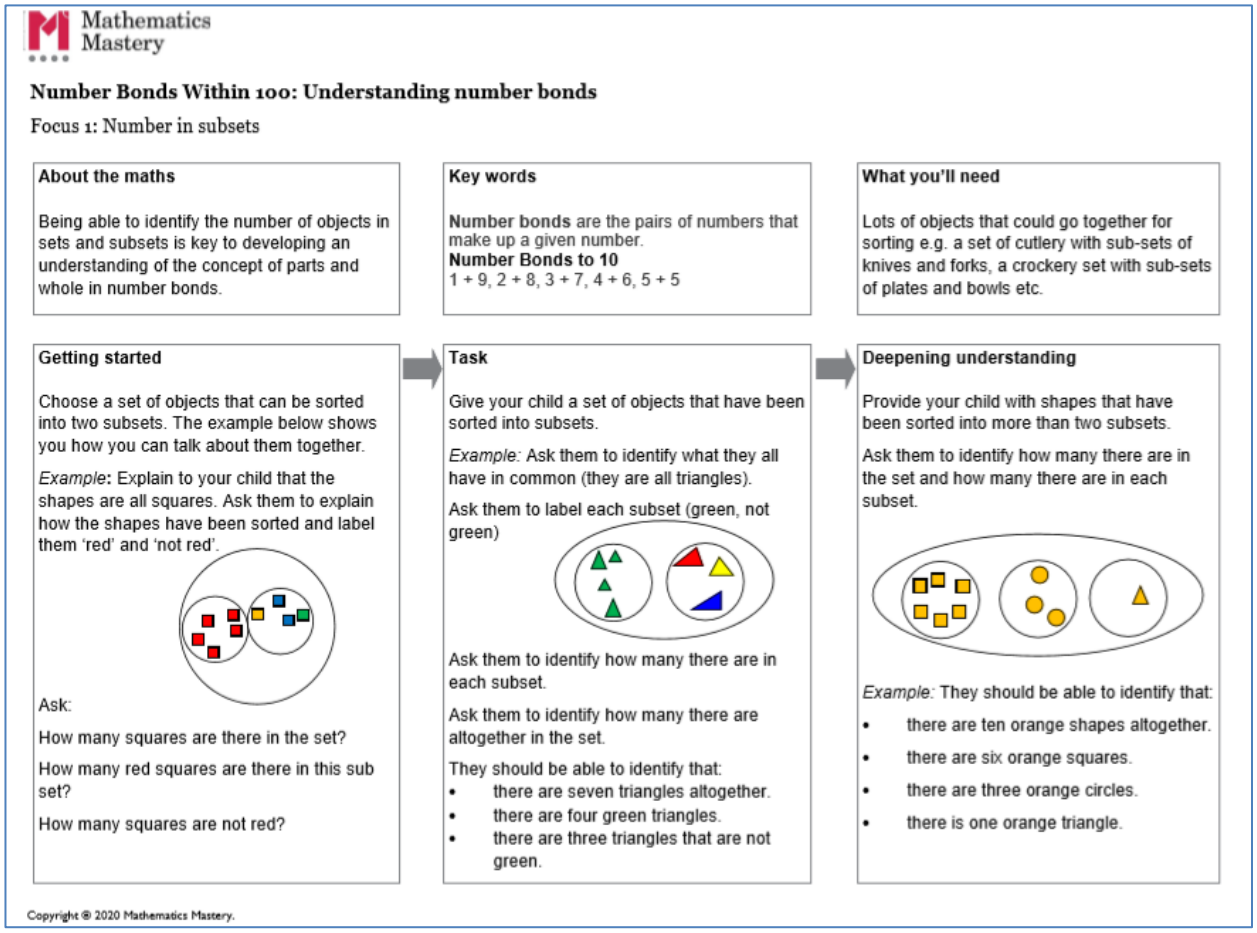
Number bonds within 100
Focus 1a and 1b: Using known number bonds within 10 for finding number bonds within 100
Focus 2a and 2b: Finding out unknown numbers in number bonds

Printable resources can be found at the back of the pack.

Each year group is set out as the example from year 2.

Y2 Printable packs

- Maths Year 2 Weeks 1-2: Number bonds within 100
- Maths Year 2 Weeks 3-5: Addition and subtraction
- Maths Year 2 Weeks 6-8 Guidance pack (easy for parents/guardians to guide learning)
- Maths Year 2 Weeks 6-8: Addition and subtraction, multiplication and division, number
- Maths Year 2 Weeks 9-10: Measures


Mathematics Mastery

Number Bonds Within 100: Understanding number bonds

Focus 1: Number in subsets

About the maths

Being able to identify the number of objects in sets and subsets is key to developing an understanding of the concept of parts and whole in number bonds.

Key words

Number bonds are the pairs of numbers that make up a given number.
Number Bonds to 10
1 + 9, 2 + 8, 3 + 7, 4 + 6, 5 + 5

What you'll need

Lots of objects that could go together for sorting e.g. a set of cutlery with sub-sets of knives and forks, a crockery set with sub-sets of plates and bowls etc.

Getting started

Choose a set of objects that can be sorted into two subsets. The example below shows you how you can talk about them together.

Example: Explain to your child that the shapes are all squares. Ask them to explain how the shapes have been sorted and label them 'red' and 'not red'.

Ask:

How many squares are there in the set?

How many red squares are there in this sub set?

How many squares are not red?

Task

Give your child a set of objects that have been sorted into subsets.

Example: Ask them to identify what they all have in common (they are all triangles).

Ask them to label each subset (green, not green)

Ask them to identify how many there are in each subset.

Ask them to identify how many there are altogether in the set.

They should be able to identify that:
- there are seven triangles altogether.
- there are four green triangles.
- there are three triangles that are not green.

Deepening understanding

Provide your child with shapes that have been sorted into more than two subsets.

Ask them to identify how many there are in the set and how many there are in each subset.

Example: They should be able to identify that:
- there are ten orange shapes altogether.
- there are six orange squares.
- there are three orange circles.
- there is one orange triangle.

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Content covered week by week in Mathematics Mastery

	1	2	3	4	5	6	7	8	9	10
Rec	Counting within 20	Counting within 20	Counting within 20	Number bonds within 20	Number bonds within 20	Number bonds within 20	Depth of numbers within 20	Depth of numbers within 20	Depth of numbers within 20	Depth of numbers within 20
Y1	Number bonds within 20	Number bonds within 20	Addition and subtraction	Addition and subtraction	Addition and subtraction	Addition and subtraction strategies, money and measure	Addition and subtraction strategies, money and measure	Addition and subtraction strategies, money and measure	Addition and subtraction strategies, money and measure	Addition and subtraction strategies, money and measure
Y2	Number bonds within 100	Number bonds within 100	Addition and subtraction	Addition and subtraction	Addition and subtraction	Addition and subtraction, multiplication and division, number	Addition and subtraction, multiplication and division, number	Addition and subtraction, multiplication and division, number	Measures	Measures
Y3	Reasoning with numbers	Division and multiplication	Addition Key Facts	Addition and subtraction methods	Angles	Geometry	Measures	Lines, length and perimeter	Time	
Y4	Numbers	Multiplication facts	Multiplication Strategies	Division strategies	Lines, length and perimeter	Shape and symmetry	Triangles and Quadrilaterals	Time	Telling the time	
Y5	Multiplication Strategies	Division strategies	Multiplication methods	Division methods	Angles and shapes	Triangles	Quadrilaterals	Area	Positive and negative numbers	
Y6	Multiplication Strategies	Division strategies	Multiplication methods	Division methods	Angles and shapes	Triangles	Quadrilaterals	Area	Positive and negative numbers	

I See Maths

http://www.iseemaths.com/home-lessons/

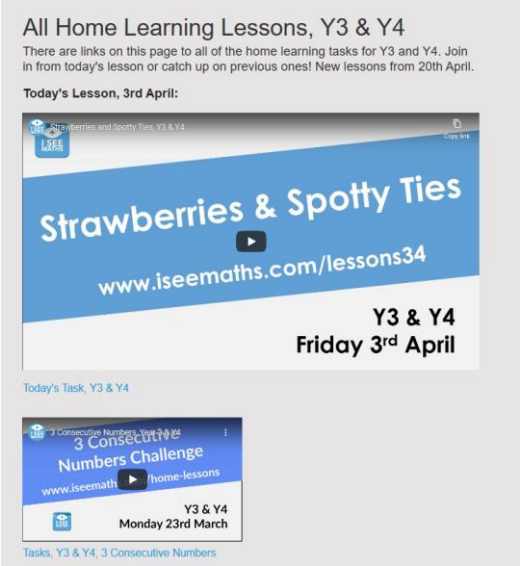
Gareth Metcalf has produced live lessons for children to watch and join in. They are for years 3&4 and 5&6. Click on the home learning tab and the lessons will be available.

Every weekday at 9am, two new lessons will be posted via YouTube: one aimed at children in

Years 3&4 http://www.iseemaths.com/lessons34/ and another for

Years 5&6 www.iseemaths.com/lessons56/

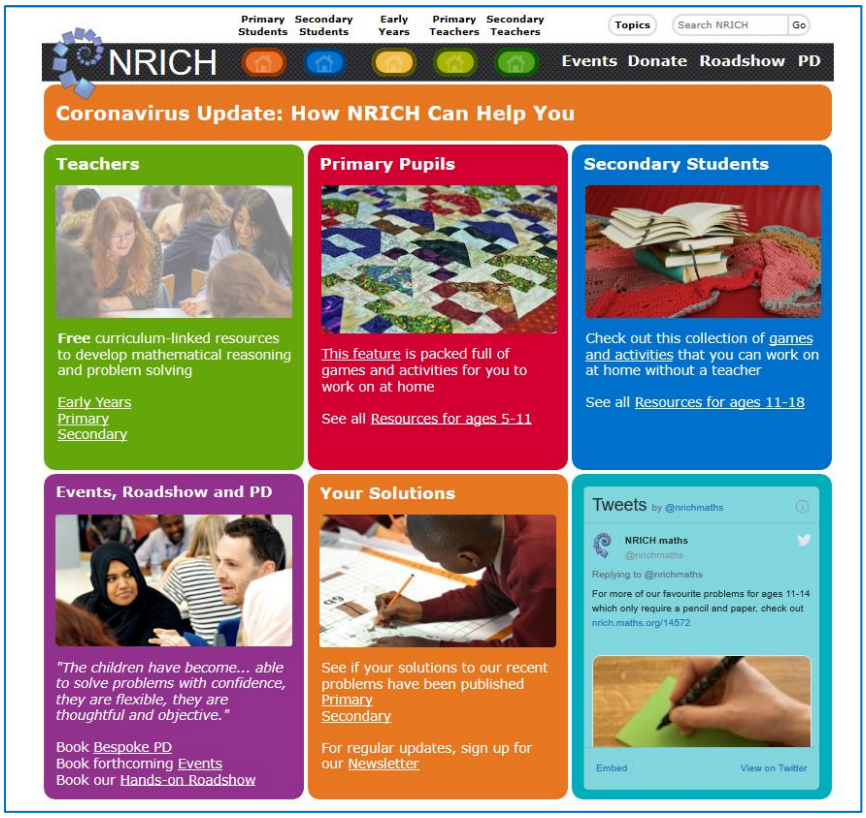
Each video will help children to build the skills needed for the main task. Then children will complete the main task – a challenge or short series of questions – working individually or with adult support.



NRICH Activities for Home Learning

https://nrich.maths.org/

NRICH have set up a link on the home page. This goes to a set of activities that are grouped in age groups.



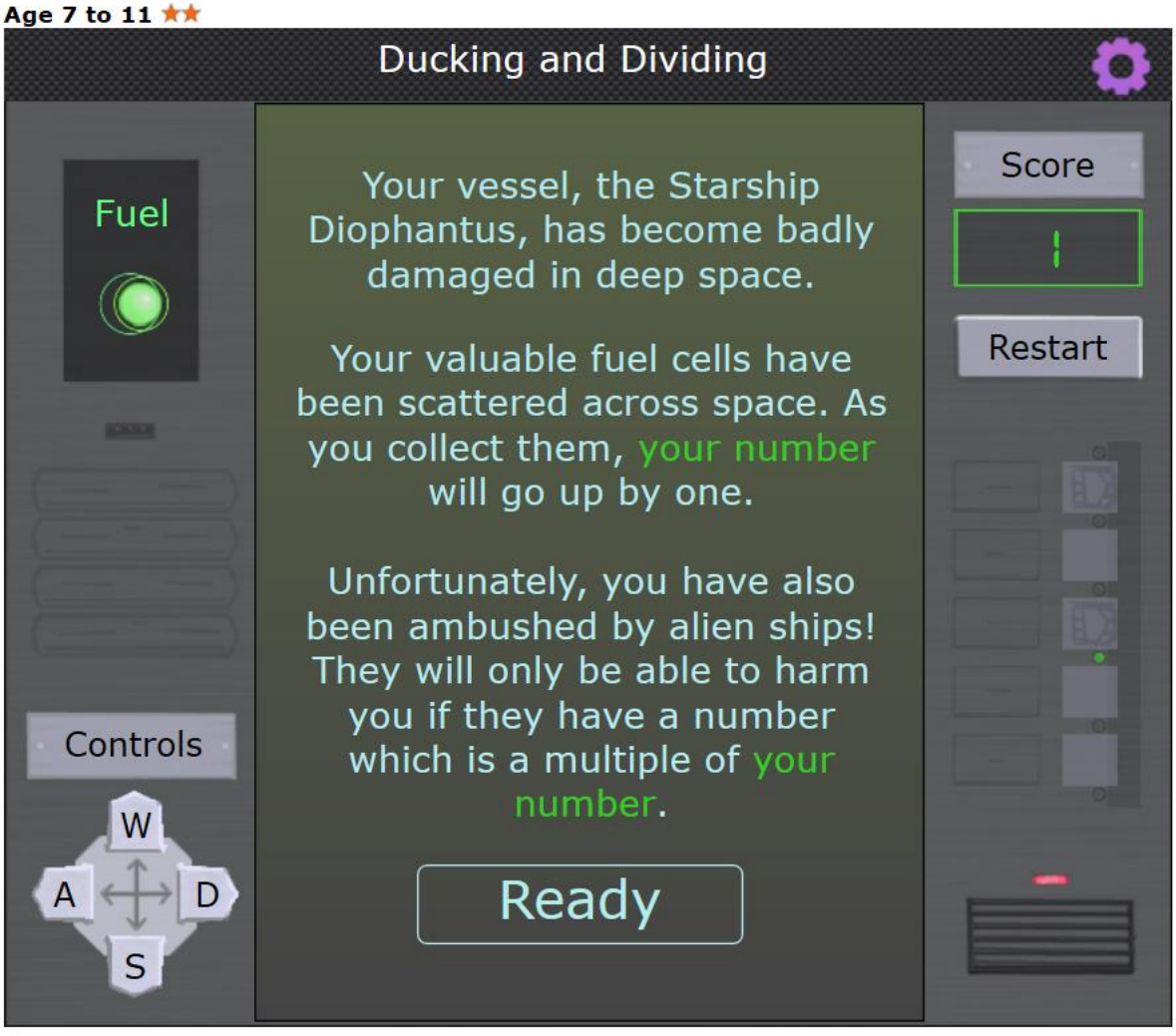
An activity taken from Ages 7-11

Ducking and Dividing

Age 7 to 11 ★★

Your vessel, the Starship Diophantus, has become damaged in deep space. Can you use your knowledge of times tables and some lightning reflexes to survive?

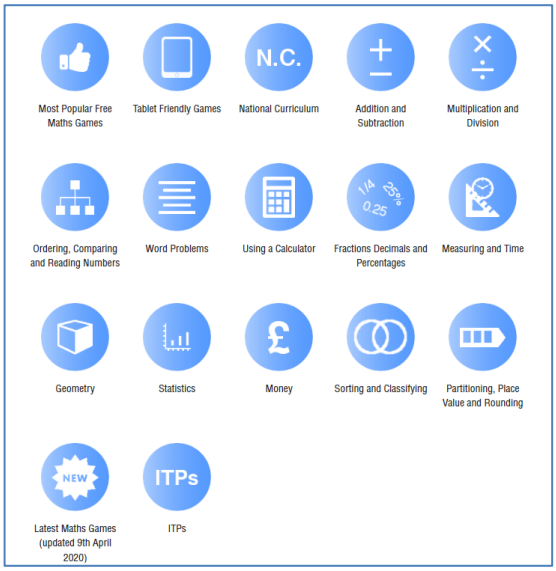
Age 7 to 11 ★★



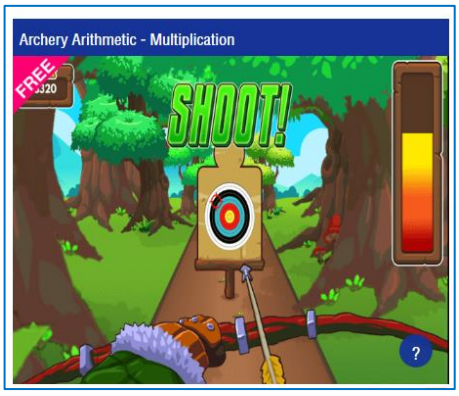
Mathsframe

https://mathsframe.co.uk/

Maths Frame has lots of free interactive games to play. Categories include:



https://mathsframe.co.uk/en/resources/resource/399/Archery-Arithmetic-Multiplication



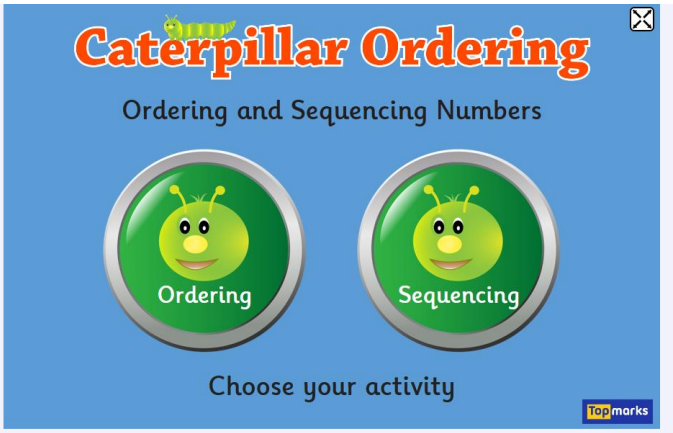
This game allows players to select the level they wish to play at. There are three questions for every shot. It can be for one player or more

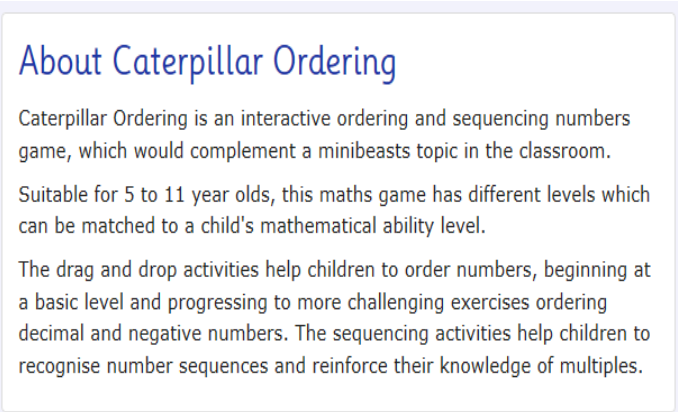
More Useful Websites

Top Marks

https://www.topmarks.co.uk/maths-games

A range of interactive maths games categorised by age group.

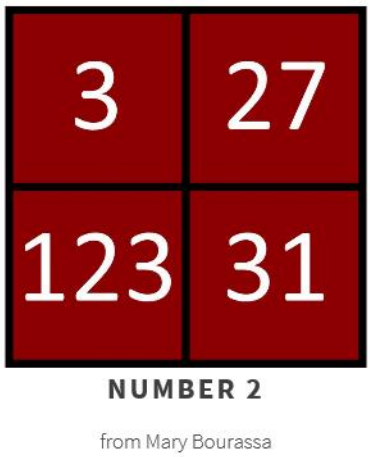


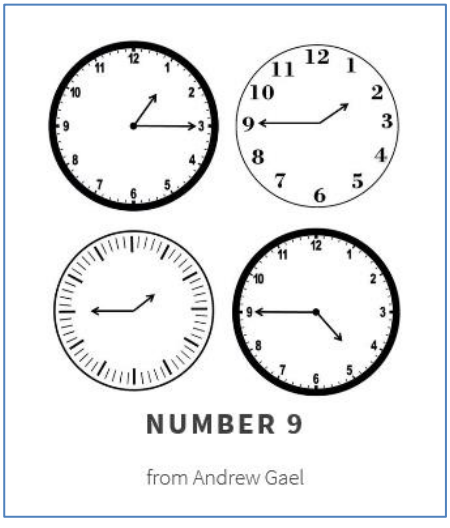


Which one Doesn't Belong

https://wodb.ca/

This is a website that provides thought-provoking puzzles for mathematics. There are no answers as there are many different ways of describing which one doesn't belong. A really good website to get discussion started.

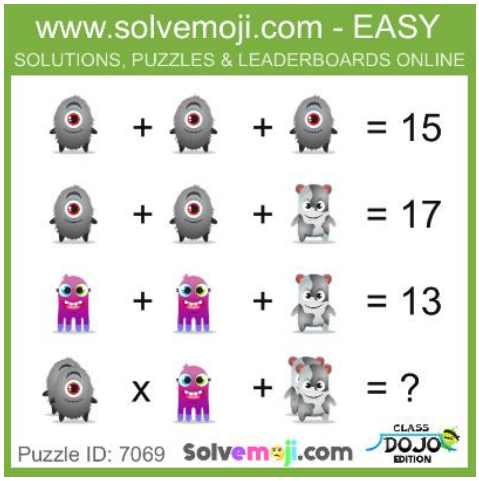


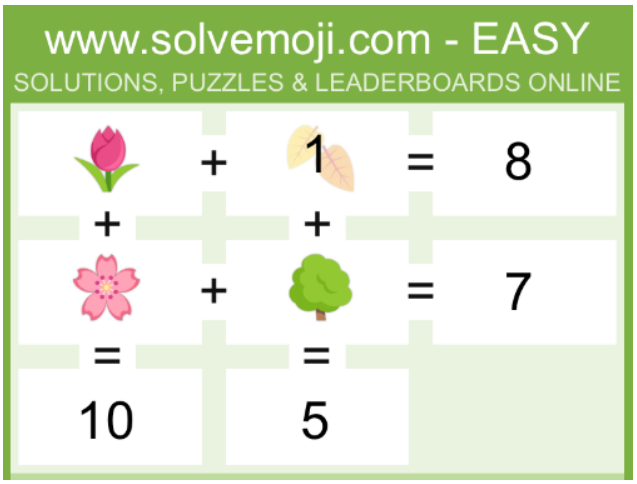


Solvemoji

https://www.solvemoji.com/

Solvemoji uses a selection of emojis and math to give colourful and exciting brainteaser puzzles for all to enjoy. The emoji puzzles come in 5 difficulties, Easy, Medium, Hard, Expert and for a very tricky experience 'Master'. Guess the number value of emojis in each row and then correctly work out the bottom row sum.

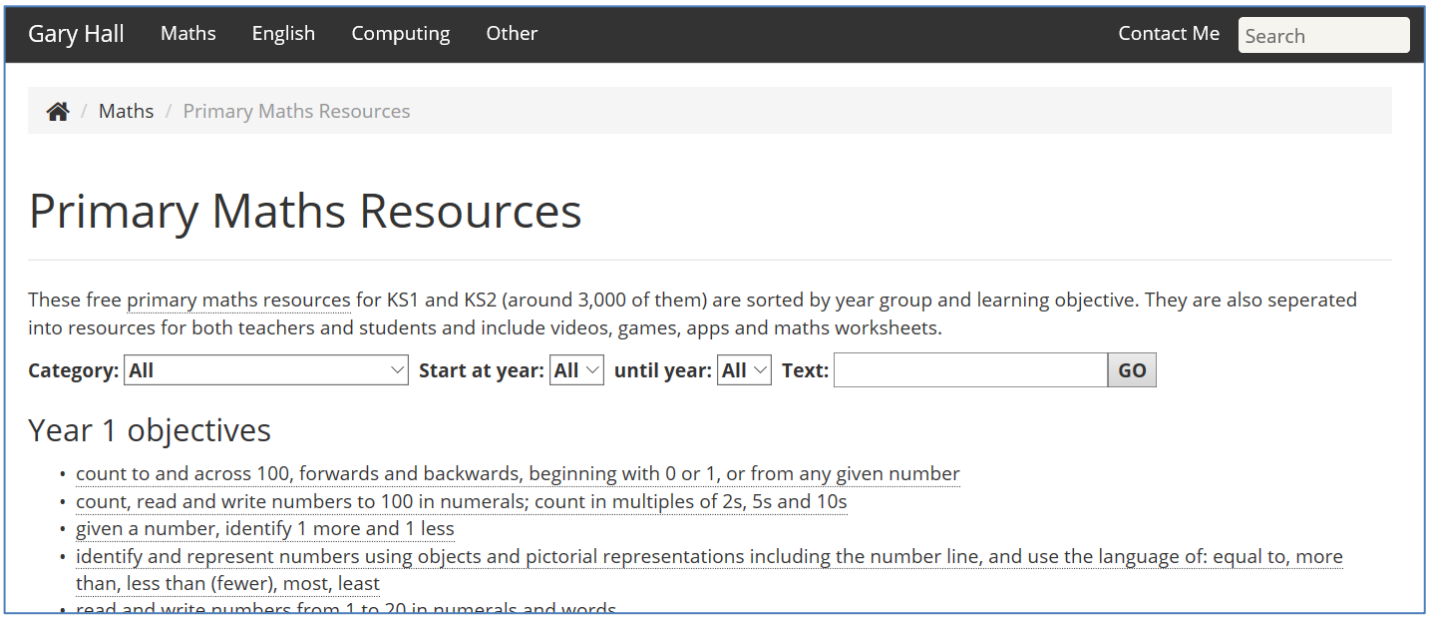




Gary Hall Maths Resources

https://garyhall.org.uk/primary-maths-resources.php

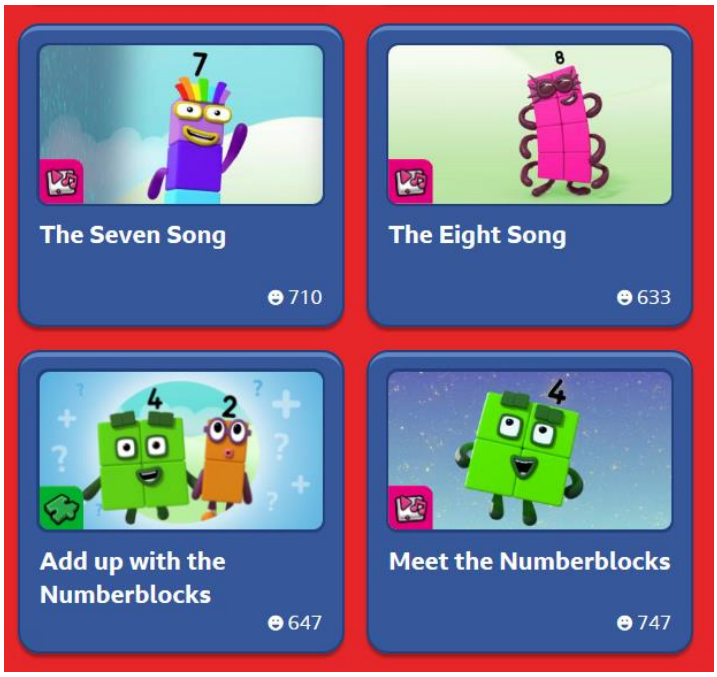
These free primary Maths resources for KS1 and KS2 (around 3,000 of them) are sorted by year group and learning objective. They are also separated into resources for both teachers and students and include videos, games, apps and Maths worksheets. Click on an objective to find a variety of resources to support the learning.



Number Blocks

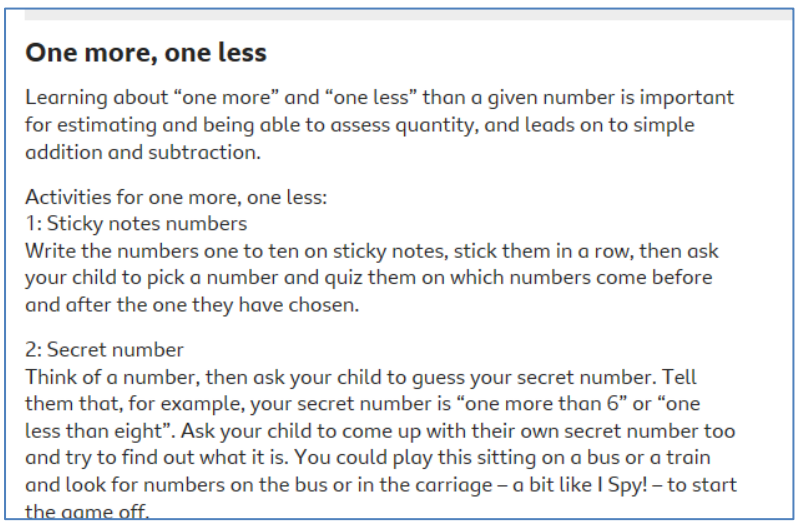
https://www.bbc.co.uk/cbeebies/shows/numberblocks

Videos for numeracy development which can be watched at home with parents. Designed for children aged 0 to 6



https://www.bbc.co.uk/cbeebies/grownups/help-your-child-with-maths

This article has lots of ideas for helping young children enjoy mathematics. There are fun activities that can be applied to everyday life and play.

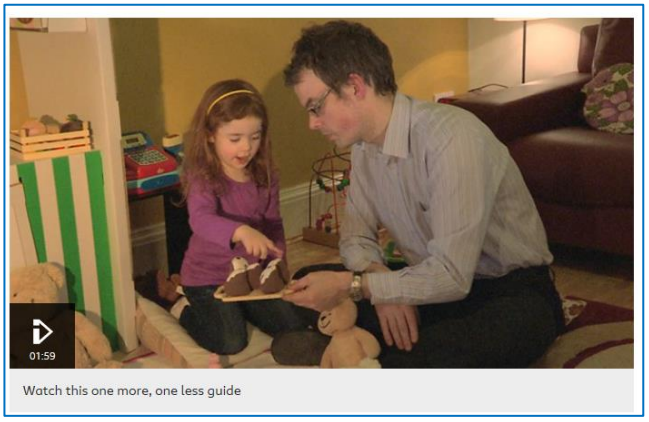


One more, one less

Learning about "one more" and "one less" than a given number is important for estimating and being able to assess quantity, and leads on to simple addition and subtraction.

Activities for one more, one less:
1: Sticky notes numbers
Write the numbers one to ten on sticky notes, stick them in a row, then ask your child to pick a number and quiz them on which numbers come before and after the one they have chosen.

2: Secret number
Think of a number, then ask your child to guess your secret number. Tell them that, for example, your secret number is "one more than 6" or "one less than eight". Ask your child to come up with their own secret number too and try to find out what it is. You could play this sitting on a bus or a train and look for numbers on the bus or in the carriage – a bit like I Spy! – to start the game off.



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