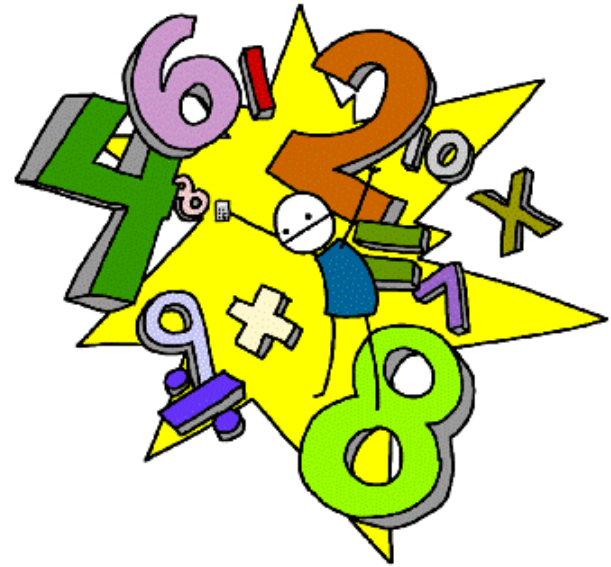


KS2 Maths Curriculum Workshop



- Class Streaming
- Target Setting
- Targets explained
- Maths Assessment at the BSB
- Calculation Methods Guide
- MyMaths tutorial



Maths Curriculum Leaders
Year 3 & 4 Miss Lorna Milligan
Year 5 & 6 Mr Martin Drennan

No need to take notes this will be available on the school blog

bsbjuniors@wordpress.com

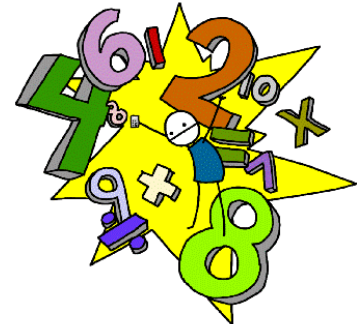
Password : bsbjuniors

KS2 Maths Information Evening

Class Streaming



- 8 classes per year group *except Yr 6 (7)
- 4 more closely differentiated groups
- Opportunity for better support LE
- Opportunity for more extension G and T

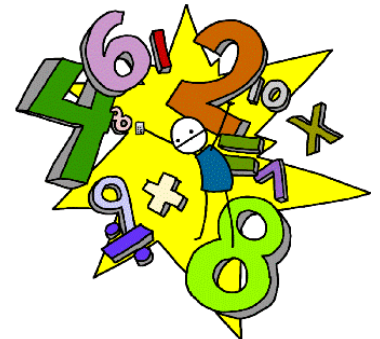


KS2 Maths Information Evening



The move away from levels...

- We do not want to 'label' a child's ability.
- A level does not give enough information about specific areas of Maths, it is an average of all aspects.
- Levels will be replaced by skills questions...Can I?



KS2 Maths Information Evening



Targets Explained...

- Children will have a list of 'Can I' skills / targets in their Maths books.
- Hit target 3 times, then highlight
- At the end of term a support booklet will come home
- Targets that are not highlighted will carry over and still require work
- Teachers can add support targets and extension targets to this.

Example of Skills / Targets



Maths Targets – Year 3 – Term 1	Example	Target achieved
Can I read and write numbers up to 1000 and put them in order? Do I know what each digit is worth?	342, 343, 345, ?,	
Can I count on or back in tens or hundreds from any number under 1000?	462, 472, 482... or 462, 562, 662...	
Do I know by heart addition and subtraction facts to 20?	$4 + 16 = 20$, $12 - 8 = 4$.	
Can I partition a number into H, T, U?	561 = 5 hundreds, 6 tens, 1 unit	
Can I use jottings to work out sums such as $56 + 29$, and $97 - 51$?	Show examples of bridging or partitioning $56 + 20 = 76$, $76 + 9 = 85$	
Do I know by heart the 2, 5 and 10 times tables?	$5 \times 5 = 25$	
Can I work out simple divisions from the 2, 5 and 10 times tables?	$20 \div 2 = 10$	
Can I find simple fractions, such as $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{10}$, of shapes and numbers?	$\frac{1}{2}$ of 22 = $22 \div 2 = 11$	
Can I convert pounds £ into pence p and back?	$\pounds 1.20 = 120p$ or $60p = \pounds 0.60$	
Can I Solve simple 1 step number problems and explain how to work them out?	Apples cost 50p, how much would 3 apples cost?	

Can you tell the time?

Whenever possible, ask your child to tell you the time to the nearest 5 minutes. Use a clock with hands as well as a digital watch or clock. Also ask:

- ◆ What time will it be one hour from now?
- ◆ What time was it one hour ago?

Time your child doing various tasks, e.g.

- ◆ getting ready for school;
- ◆ tidying a bedroom;
- ◆ saying the 5 times, 10 times or 2 times table...

Ask your child to guess in advance how long they think an activity will take. Can they beat their time when they repeat it?

Fractions

Use 12 buttons, or paper clips or dried beans or...

- ◆ Ask your child to find **half** of the 12 things.
- ◆ Now find one **quarter** of the same group.
- ◆ Find one **third** of the whole group.

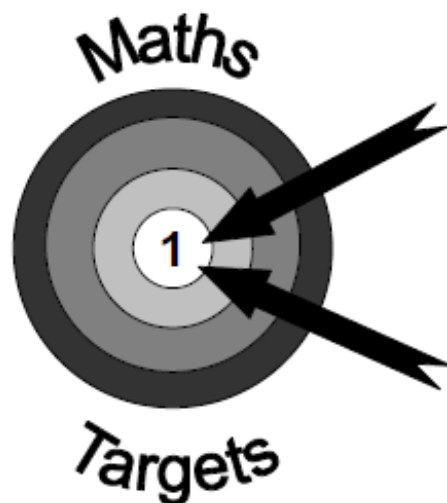
Repeat with other numbers.



Order, order!

- ◆ Each of you should draw 6 circles in a row.
- ◆ Take turns.
- ◆ Roll two dice and make a two-digit number (see Number games).
- ◆ Write the number in one of your circles. Once the number is written in a circle you cannot change it or move it!
- ◆ The first to get all six of their circle numbers in order wins.

Targets for pupils Year 3 Term 1



A booklet for parents

Support your child with mathematics

Targets – Year 3₁

By the end of Year 3, Term 1, most children should be able to...

- Read and write numbers up to 1000 and put them in order. Know what each digit is worth.
- Count on or back in tens or hundreds from any number under 1000, e.g. 462, 472, 482... or 462, 562, 662...
- Know by heart addition and subtraction facts to 20, e.g. $4 + 16 = 20$, $12 - 8 = 4$.
- Partition a number into H, T, U
- Use jottings to work out sums such as $56 + 29$, and $97 - 51$.
- Know by heart the 2, 5 and 10 times tables.
- Work out simple divisions, such as $30 \div 5$.
- Find simple fractions, such as $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{10}$, of shapes and numbers.
- Convert pounds £ into pence p and back
- Solve simple 1 step number problems and explain how to work them out.
- Recognise right angles and lines of symmetry in simple shapes.
- Draw and explain a simple pictogram, bar chart and Venn diagram.
- Tell the time to the nearest 5 minutes on a digital clock.
- Identify 2D and 3D shapes and their properties.

- Use a ruler to measure and draw lengths to the nearest half cm
- Understand the terms doubling and halving

About the targets

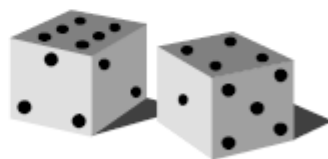
These targets show some of the things your child should be able to do by the end of Year 3, Term 1.

A target may be more complex than it seems, e.g. a child who can count to 1000 may not know what each digit represents. In 784, for example, the '8' is worth 80 not just 8.

Fun activities to do at home

Number games

Roll two dice. Make two-digit numbers, e.g. if you roll a 6 and 4, this could be 64 or 46. If you haven't got two dice, roll one dice twice. Ask your child to do one or more of the activities below.



- ◆ Count on or back from each number in tens.
- ◆ Add 19 to each number in their head. (A quick way is to add 20 then take away 1.)
- ◆ Subtract 9 from each number. (A quick way is to take away 10 then add back one.)
- ◆ Double each number.



KS2 Maths Information Evening



Maths Assessment at the BSB...

- Teacher assessment is our main form of assessment
- InCAS from the University of Durham
- Used worldwide for many years to assess a child's ability in Maths and English
- Far superior to written tests where we assessed and leveled the paper, again giving an overall score
- Provides detailed information in the form of age in years and months for specific areas of Maths.
- General Maths V's reading ability
- Number 1 and 2, Shape, space and measure, data handling
- Mental arithmetic specifically $+$ $-$ \div \times
- Developed ability - a child's aptitude for learning
- Attitude towards subject

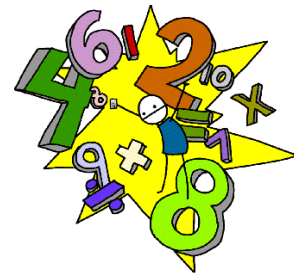
KS2 Maths Information Evening



Maths Assessment at the BSB...

- Baseline results are being completed now
- Children will be assessed at the end of each term
- Children will not be given these results, we use these to inform our planning. Children should concentrate on skills / targets.
- Important / relevant information will be shared with you at parent evenings.

- Tea and targets Week of the 18th of October
- Pastoral Parent meetings Week of the 18th of October
- Pupil lead conferencing Term 2



KS2 Maths Information Evening

Calculation Methods Guide



This will give you an overview of each of the methods that we use in the Maths Department from Year 3 through to Year 6.

It shows the progression from counting on number lines up to formal addition etc...

My Maths will also show the way that we teach $+$ $-$ \times \div at the BSB

This will be available on the school blog

bsbjuniors@wordpress.com password : bsbjuniors



A Guide to Numeracy for Parents



YEAR 3: Multiplication

Tables: x2, x3, x4 x5, x10

Working out multiplications using an array: 4×3

3 rows of 4 or 4 rows of 3

$4 \times 3 = 12$

Repeated addition using a number line.

4×3 (4 jumps of 3)

$4 \times 3 = 12$

Grid Method (Teens x U)

13×8 (13 partitions to 10 and 3)

X	10	3	
8	80	24	= 104

(80+24=104)

$13 \times 8 = 104$

Vocabulary:
lots of, groups of, times, multiply, multiplication, multiplied by, multiple of, product, once, twice, three times... ten times... times as, repeated addition, array, row, column, double, grid method

YEAR 4: Division

Division facts from tables and fact families

e.g. $2 \times 9 = 18$
 $9 \times 2 = 18$
 $18 \div 2 = 9$
 $18 \div 9 = 2$

Repeated subtraction along a horizontal number line
 $TU \div U$

$48 \div 4$

12 jumps of 4 so $48 \div 4 = 12$
(Also with remainders, see Year 3 example)

Moving to a vertical number line

$48 \div 4$

12 jumps of 4 so $48 \div 4 = 12$

$50 \div 4$

12 jumps of 4 with 2 left over
 $50 \div 4 = 12 \text{ r } 2$

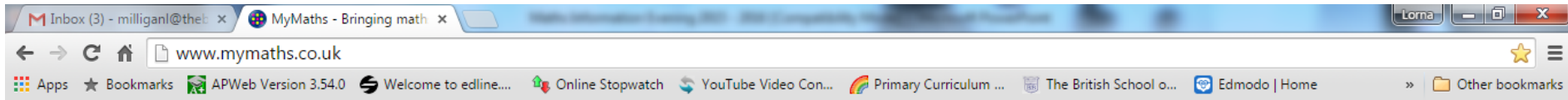
More able moving to chunking

$48 \div 4$ $48 \div 4$

$48 \div 4 = 12$ $48 \div 4 = 12$

Vocabulary:
Halve, share, share equally, one each, two each, three each... group in pairs, threes... tens, equal groups of, divide, division, divided by, divided into, remainder, factor, quotient, divisible by, inverse, halve, fact families, chunking

www.mymaths.co.uk



Home

Primary

Secondary

Parents

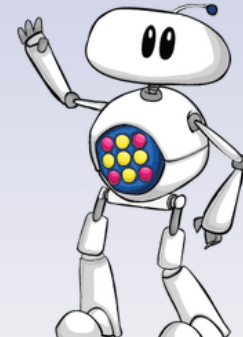
Subscribe

Help

News

Welcome to MyMaths

Take a look around to find out more about the site



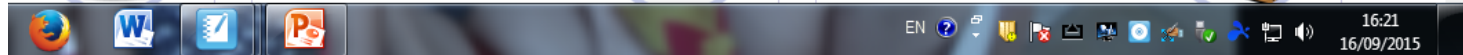
Assessment Manager Update

We have made an update to the Assessment Manager to simplify the process of transferring students from one class to...



Scheduled updates

We will be making improvements to the Administration section of the Assessment Manager to enable



Getting started

- Your child has received a letter telling them how to access MyMaths with their login details as well.
- It is very straight forward and every child will be shown in class what to do.
- MyMaths runs best on PC/laptop

Got an iPad?
Download **FREE** Puffin



This web browser has FLASH support so you can use mymaths.co.uk on your device!

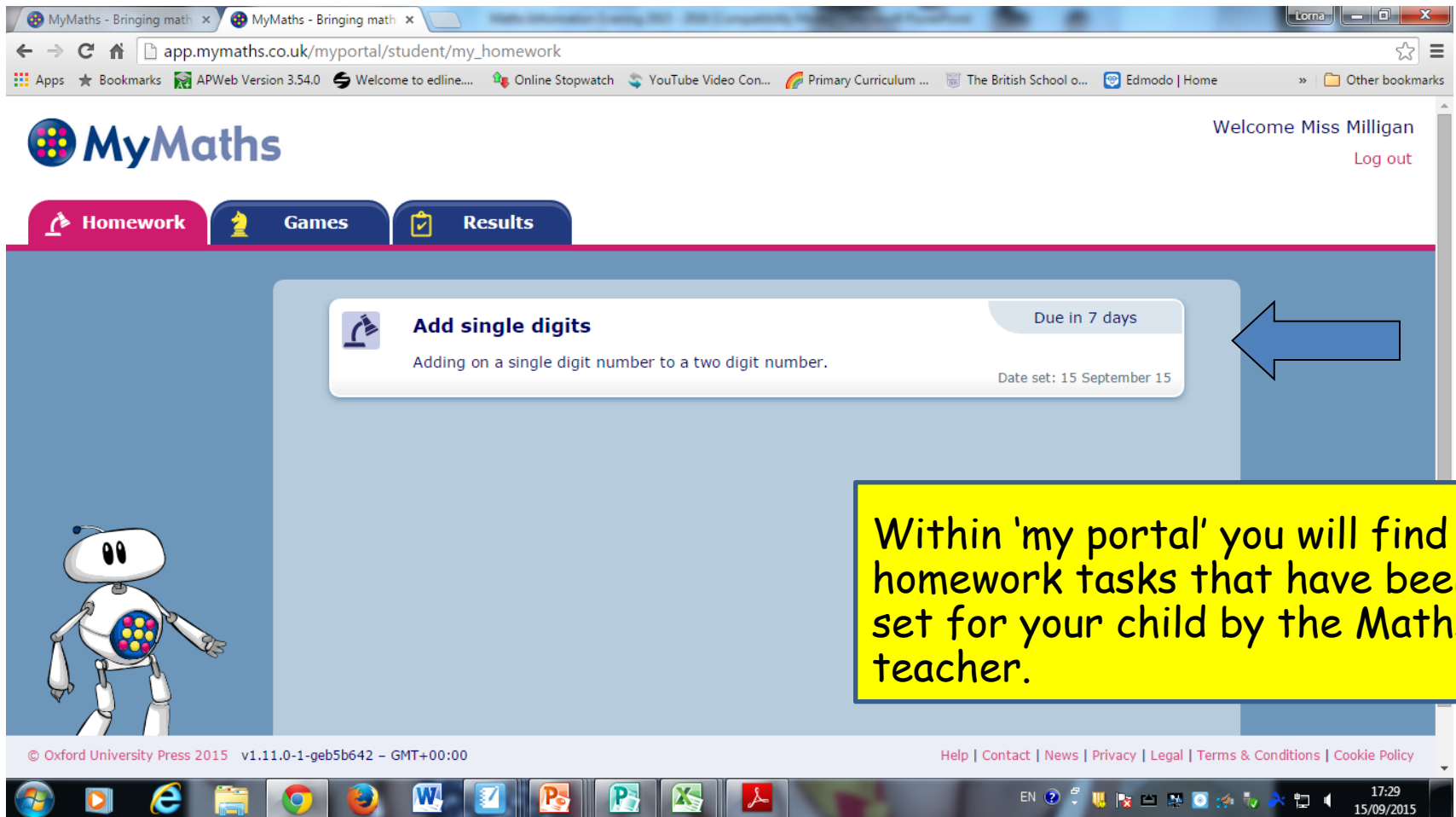


Logging on

The screenshot shows the MyMaths.co.uk website. At the top left is the logo with the tagline "Bringing maths alive". To the right is a login form with fields for "Username" and "Password", and a "Go" button. A blue arrow points to the "Go" button. Below the logo is a navigation menu with buttons for "Home", "Primary", "Secondary", "Parents", "Subscribe", "Help", and "News". The main content area features a "Welcome to MyMaths" message with a sub-headline "Take a look around to find out more about the site" and a cartoon robot character. Below this are three update boxes: "GCSE content update", "Assessment Manager Update", and "Scheduled updates". The bottom of the page shows a Windows taskbar with the date "15/09/2015" and time "17:23".

Login - thebritish
Password - cosine214

My Homework



The screenshot shows a web browser window with the URL `app.mymaths.co.uk/myportal/student/my_homework`. The page features the MyMaths logo and a navigation menu with 'Homework', 'Games', and 'Results'. A homework task card is displayed with the title 'Add single digits', a description 'Adding on a single digit number to a two digit number.', and a due date of '15 September 15'. A blue arrow points to the task card. A yellow text box on the right contains the text: 'Within 'my portal' you will find the homework tasks that have been set for your child by the Maths teacher.' The footer includes copyright information for Oxford University Press 2015 and various links like 'Help', 'Contact', 'News', 'Privacy', 'Legal', 'Terms & Conditions', and 'Cookie Policy'. The Windows taskbar at the bottom shows the system clock at 17:29 on 15/09/2015.

To access your child's own page type in their login and password from their letter OR from their diary.

My Homework

The screenshot shows a web browser window with the URL `app.mymaths.co.uk/myportal/student/my_homework`. The page title is "MyMaths" and it says "Welcome Miss Milligan". A notification box titled "Add single digits" is overlaid on the page. The notification includes a magnifying glass icon, the title "Add single digits", and the description "Adding on a single digit number to a two digit number." Below this is a message: "Have fun with your very first MyMaths homework, don't forget to check out! Miss Milligan". There are two main buttons: "Start homework" and "Need practice?". To the left of the buttons is a "Level" dropdown menu set to "3". To the right is a "Date set: 15 Sep 15" and "Date due: 22 Sep 15". A red arrow points from the "Start homework" button to the "Level" dropdown, and another red arrow points from the "Need practice?" button to the "Date due" field. At the bottom of the page, there is a navigation menu with links for "Help", "Contact", "News", "Privacy", "Legal", "Terms & Conditions", and "Cookie Policy".

MyMaths - Bringing math x MyMaths - Bringing math x

app.mymaths.co.uk/myportal/student/my_homework

Apps Bookmarks APWeb Version 3.54.0 Welcome to edline... Online Stopwatch YouTube Video Con... Primary Curriculum ... The British School o... Edmodo | Home Other bookmarks

Welcome Miss Milligan
Log out

Homework

Add single digits Due in 7 days

Adding on a single digit number to a two digit number.

Have fun with your very first MyMaths homework, don't forget to check out! Miss Milligan

Start homework

Need practice?

Level 3

Date set: 15 Sep 15

Date due: 22 Sep 15

Number > Add subtract mental > Add single digits

Help | Contact | News | Privacy | Legal | Terms & Conditions | Cookie Policy

Start Homework
Only if you are ready!

Need Practice?
(We always
need practice)

Need Practice?

Index- this tells you what you are learning, when you click on this you will be offered several tasks and games to learn this concept

MyMaths.co.uk 15th Sep 2015 Adding Single Digits

Welcome to MyMaths

INDEX

one	Adding on a number line
two	Your turn
three	Grid game
four	Loop Card game
five	6 quicks
six	Pairs game
seven	Beat the clock
Tool	🍏 Interactive Number Line
Tool	🍏 Flashing Sums

Objectives:

- Adding on single digit numbers.

1 2 3 4 5 6 7

MyMaths.co.uk 15th Sep 2015 Adding Single Digits

Work out: $36 + 3$

30 35 40 45 50

Next

You must press NEXT to find out what to do!

Start Homework

Once you feel ready... Start Homework

MyMaths.co.uk Online Homework

Q1 - Fill the grid
Add the numbers to fill the grid.
I have done the first row for you already.

+	21	53	74	59	69
2	23	55	76	61	71
3					
5					
8					
9					

[10]

Markit

Adding single digits

Q1 0/10

Q2 0/8

No Calc

Total 18

15/09/2015 17:35

Questions - These must be completed

Markit- MUST BE COMPLETED
Or you will be unable to checkout

The Checkout - Here is a round up of all of your scores on this worksheet

Score Sheet

Homework: Adding single digits

Question 1: $\frac{0}{10} = 0\%$

Fill the grid

Question 2: $\frac{1}{8} = 13\%$

Find the missing numbers

Overall: $\frac{1}{18} = 6\%$

Want to try again?

Next

Your 'Best Scores' Sheet

No of Attempts: 1

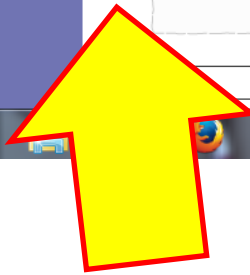
Question 1: $\frac{0}{10} = 0\%$ 😞

Question 2: $\frac{1}{8} = 13\%$ 😞

Overall: $\frac{1}{18} = 6\%$ 😞

We only ever record your best scores for each question on the Online Homeworks.

Checkout



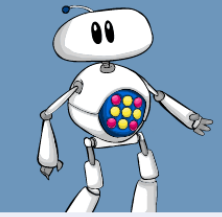
Adding single digits

YOU MUST CHECKOUT IN ORDER TO RECORD YOUR HOMEWORK and refresh the page!

70% above
40% above
Below 40%

You have no MyMaths homework!
Why not try some of our [fun maths games?](#)

Once you have clicked on the homework and then logged off, it will be removed from the front screen.



Completed Tasks | **Boosters** | Levels

Just click the results section to find it again.

Completed Tasks

- Add single digits** 11%
Adding on a single digit number to a two digit number.
- Ordering whole numbers** 0%
Ordering whole numbers up to 1000.

We would like the children to try to achieve an orange face to a green face, but if it is clear that they found this tricky, 2/3 attempts would be enough.

Add single digits ★ 11% [Rate it](#)

Adding on a single digit number to a two digit number.

Q1	1/10	★	10%
Q2	1/8	★	13%
Total	2/18	★	11%

MyMaths.co.uk Online Homework

Q1 - Fill the grid
Add the numbers to fit the grid.

+	32	61	83	56	88
2	34	63	85	58	90
3					
5					
8					
9					

[Try homework again?](#)

Need practice? [Try the lesson](#)

Rate - Add single digits

Choose a smiley to show how hard or easy it was.

-  This task was easy. I got full marks and had no problems.
-  The task was OK. I made a couple of silly mistakes but I know what I'm doing.
-  I thought I understood this topic and had done well but my score is not very good and I don't know why.
-  This task was quite hard. I need to learn a little more about the topic to feel confident.
-  I found this task hard and had some help to get it completed and to get the score I did.
-  This task was too hard for me. I didn't understand what I had to do.

Please encourage your child to reflect on their homework by 'rate it', this will let us know what they found tricky at home!

The Maths teacher will give your child feedback!

The screenshot shows a web browser window displaying the MyMaths website. A yellow callout box at the top contains the text 'The Maths teacher will give your child feedback!'. A red arrow points from this box to a feedback message at the bottom of the homework report. The report itself is titled 'Add single digits' and shows a score of 94%. It lists three questions: Q1 (10/10, 100%), Q2 (7/8, 88%), and a Total (17/18, 94%). A 'Try homework again?' button is visible, along with a message from the teacher: 'Well done Miss Milligan! After 3 attempts you only made 1 mistake! 1hp'. The background shows a navigation menu with 'Homework' and 'Completed Tasks' buttons, and a robot character in the bottom left corner.

Add single digits 94%

Adding on a single digit number to a two digit number

Q1	10/10		100%
Q2	7/8		88%
Total	17/18		94%

[Try homework again?](#)

Need practice? [Try the lesson](#)

Well done Miss Milligan! After 3 attempts you only made 1 mistake! 1hp

Level **3** Tried: 3 times

Number > Add subtract mental > Add single digits Last done: 16 September 2015

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16:18 16/09/2015

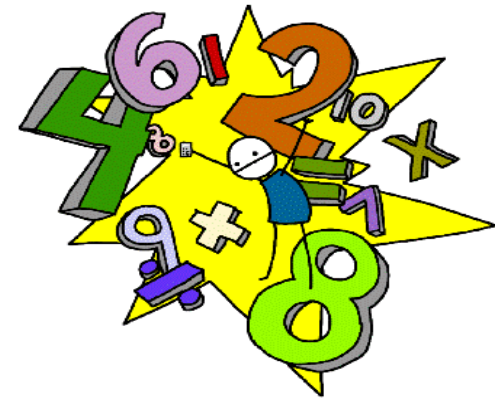
Revision - Library

The Library can be accessed from basic logging on.

The screenshot shows the MyMaths.co.uk website interface. At the top, there is a navigation bar with the MyMaths.co.uk logo and the tagline 'Bringing maths alive'. To the right of the logo are links for 'Assessment Manager', 'Help', and 'Log out', along with a search bar. Below this is a 'My portal' section with fields for 'Username' and 'Password', and a 'Login' button. On the left side, there is a vertical menu with categories: 'Library', 'Number', 'Algebra', 'Shape', 'Data', 'fSkills', 'Booster packs', and 'Games'. The 'Number' category is selected and highlighted in red. The main content area is titled 'Number' and features a 'Filter: Everything' dropdown. Below the title is a list of resources under the heading 'Add subtract mental'. The first resource is 'Number facts and doubles 1', which includes a description 'Knowing pairs that add up to 10. Sums and doubles up to 5.' and icons for 'Lesson' and 'Online homework'. Below this are four more resources: 'Number facts and doubles 2', 'Number facts and doubles 3', 'Number facts and doubles 4', and 'Number bonds'.

Select which of the 5 areas of Maths you would like your child to work on : Number, Algebra, Shape, Data, fskills. The Booster packs are brilliant to work through at home as well for revision.

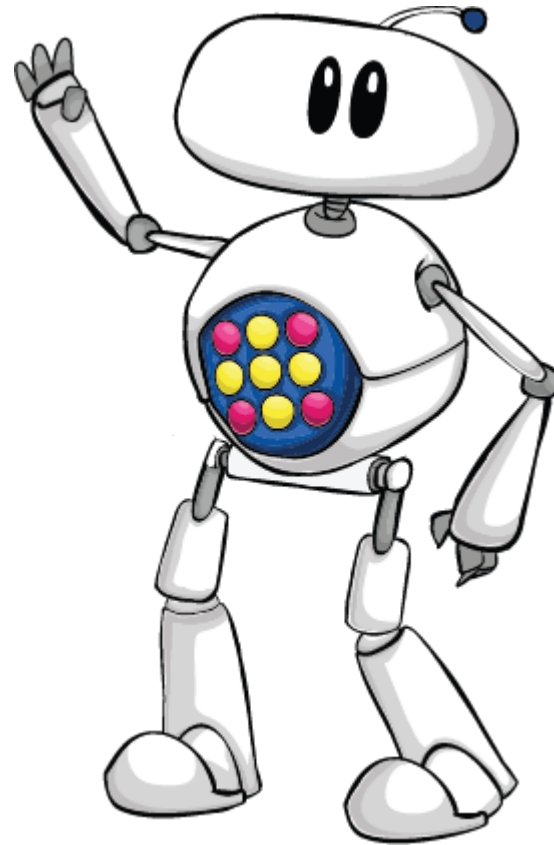
Resources



The resource section consists of three sections:

- **Library** - Designed for you to use at home with your children for extra support.
- **Booster pack** – Here there are lessons and online worksheets to help your child move to the next level.
- **Games** – Interactive games for your child to learn in a fun way.

Any Questions?



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drennanm@thebsbh.com