



Transition to Year 6
Summer Holiday Homework

Welcome to Year 6, Miss Fitzgerald and Miss Ali have a few important things for you to do over the Summer holidays! The activities in this pack are designed to give you the best possible start to Year 6.

1. Learn all of your times and division tables up to 12 - in order to recall at high speed! If you already know them, keep testing yourself regularly to keep up your accuracy and speed (Year 6 maths is so much easier if your times tables knowledge is secure). Times Tables Rock Stars is a fun way to revise these!
2. To know all of the spelling words from Year 3 and 4; Year 5 and 6 National Curriculum Spelling List.
3. Complete the Summer Reading Challenge. The included link suggests some great books for children in Year 6 (but reading any appropriate books is fine) - there are some great books on there! Keep a log to see how many can you get through.
<https://www.hertfordshire.gov.uk/services/Libraries-and-archives/news-and-campaigns/summer-reading-challenge.aspx>
4. Within this homework booklet, there are a number of activities that have been split into four areas: **maths**, **reading**, **writing** and **SPAG** (spelling, punctuation and grammar). Each of the activities are explained on the page. You should complete all the activities and return the work to school within the first week back.

Teaching and learning in Year 6 will involve daily lessons which include: Guided Reading, Maths and English. Throughout the week, we will be learning about other subjects based on key themes covered by the National Curriculum. Please see the table below for our topics - spend some time over the Summer holidays investigating and building an interest on the topics we will be learning about. We would love to hear about your new knowledge that you will have acquired when you return to school in September.

	PSHE	Science	Computing	R.E.	Geography	Art	Spanish	Music	PE
Topic	Being Me in The World	Living things and their habitats	Coding	Christianity and Buddhism	Our World in the Future	Designing and making puppets	Habitats	'Happy' by Pharrell Williams	Gymnastics
	What makes us unique?	What are organisms and how do things live?	How are codes used to make games?	What are the symbolic ways to express meaning within religion?	How can we protect the future of our world?	What does a design process involve?	What habitats can you name in Spanish?	Can you learn to play the beat of this song on a homemade instrument?	What is gymnastics? What rules can you find out about the different elements to gymnastics?

Work hard in preparation for Year 6 but don't forget to have a great holiday!

Mathematics

Fast and Furious

Below are six fast and furious challenges, what you need to do is: time yourself completing all 40 questions. Then write the time it took underneath.

Remember to mark your work to check how many you got correct and where you could improve going forwards.

Fast and Furious Number	Time taken	Score /40
1		
2		
3		
4		
5		
6		

100 + 94 =		4 x 8 =		93 - 72 =		12 ÷ 4 =	
89 + 78 =		8 x 7 =		102 - 71 =		36 ÷ 9 =	
97 + 92 =		8 x 10 =		119 - 50 =		50 ÷ 5 =	
83 + 50 =		11 x 8 =		99 - 57 =		20 ÷ 5 =	
88 + 52 =		3 x 6 =		135 - 62 =		20 ÷ 4 =	
64 + 75 =		8 x 10 =		107 - 53 =		18 ÷ 6 =	
64 + 52 =		10 x 12 =		98 - 59 =		48 ÷ 8 =	
82 + 65 =		10 x 12 =		92 - 51 =		120 ÷ 10 =	
50 + 83 =		7 x 9 =		86 - 73 =		88 ÷ 11 =	
97 + 84 =		11 x 7 =		114 - 76 =		21 ÷ 7 =	

83 + 85 =		8 x 10 =		85 - 61 =		42 ÷ 7 =	
77 + 55 =		7 x 8 =		87 - 53 =		48 ÷ 6 =	
64 + 95 =		11 x 5 =		140 - 77 =		35 ÷ 7 =	
74 + 65 =		4 x 9 =		93 - 77 =		48 ÷ 4 =	
55 + 86 =		5 x 10 =		126 - 56 =		99 ÷ 9 =	
69 + 54 =		6 x 9 =		114 - 56 =		72 ÷ 9 =	
97 + 80 =		8 x 8 =		80 - 56 =		12 ÷ 4 =	
98 + 85 =		10 x 7 =		124 - 53 =		12 ÷ 3 =	
71 + 82 =		7 x 5 =		114 - 63 =		18 ÷ 6 =	
62 + 88 =		8 x 6 =		93 - 78 =		63 ÷ 9 =	

62 +	73 =		6 x	6 =		107 -	51 =		90 ÷	9 =	
91 +	91 =		4 x	6 =		92 -	70 =		144 ÷	12 =	
75 +	79 =		6 x	5 =		136 -	54 =		24 ÷	8 =	
80 +	73 =		7 x	12 =		124 -	77 =		63 ÷	7 =	
73 +	63 =		5 x	10 =		138 -	70 =		72 ÷	12 =	
100 +	75 =		6 x	9 =		117 -	73 =		36 ÷	12 =	
64 +	75 =		6 x	9 =		81 -	76 =		18 ÷	6 =	
52 +	59 =		4 x	10 =		135 -	68 =		72 ÷	6 =	
65 +	61 =		11 x	8 =		116 -	56 =		28 ÷	7 =	
75 +	90 =		7 x	12 =		97 -	77 =		18 ÷	3 =	

87 +	51 =		9 x	9 =		139 -	78 =		72 ÷	8 =	
94 +	86 =		10 x	7 =		82 -	59 =		36 ÷	12 =	
90 +	89 =		9 x	12 =		113 -	60 =		48 ÷	4 =	
87 +	74 =		8 x	12 =		90 -	76 =		132 ÷	12 =	
55 +	66 =		10 x	10 =		131 -	61 =		40 ÷	10 =	
91 +	77 =		4 x	10 =		107 -	71 =		40 ÷	4 =	
92 +	93 =		4 x	6 =		137 -	70 =		54 ÷	6 =	
88 +	52 =		12 x	11 =		95 -	80 =		45 ÷	9 =	
93 +	84 =		7 x	10 =		119 -	64 =		16 ÷	4 =	
63 +	61 =		11 x	8 =		139 -	76 =		33 ÷	3 =	

88 +	68 =		10 x	8 =		128 -	52 =		144 ÷	12 =	
71 +	56 =		7 x	6 =		126 -	72 =		60 ÷	10 =	
95 +	94 =		6 x	10 =		126 -	73 =		99 ÷	11 =	
91 +	99 =		9 x	6 =		81 -	57 =		96 ÷	8 =	
98 +	51 =		11 x	8 =		132 -	60 =		36 ÷	3 =	
95 +	94 =		11 x	11 =		113 -	76 =		30 ÷	10 =	
85 +	93 =		12 x	7 =		107 -	55 =		36 ÷	3 =	
75 +	92 =		11 x	7 =		103 -	57 =		66 ÷	6 =	
93 +	92 =		3 x	10 =		86 -	52 =		88 ÷	11 =	
59 +	82 =		11 x	9 =		107 -	78 =		96 ÷	8 =	

56 +	82 =		11 x	6 =		115 -	56 =		70 ÷	10 =	
72 +	73 =		7 x	11 =		134 -	67 =		35 ÷	7 =	
83 +	53 =		7 x	7 =		91 -	59 =		84 ÷	12 =	
94 +	52 =		8 x	12 =		99 -	68 =		28 ÷	4 =	
86 +	88 =		6 x	5 =		80 -	80 =		84 ÷	7 =	
88 +	73 =		5 x	9 =		102 -	63 =		84 ÷	7 =	
96 +	61 =		8 x	5 =		105 -	64 =		32 ÷	4 =	
68 +	90 =		3 x	5 =		122 -	74 =		35 ÷	7 =	
53 +	69 =		8 x	11 =		104 -	71 =		88 ÷	11 =	
56 +	56 =		9 x	10 =		83 -	56 =		33 ÷	11 =	

Mental Arithmetic Questions

Below are 6 random mental arithmetic question sets. Your aim is to complete all 10 questions in under 10 minutes. You should also aim for 10/10! Fill in the table below with your time and scores.

At the end of the questions, there is a table showing you how the questions could have been worked out including any written methods used.

Mental Arithmetic Question Set	Time	Score /10
1		
2		
3		
4		
5		
6		

Mental Arithmetic Calculations				
1)	925	+	800	=
2)	150	×	11	=
3)	4.5	+	9.8	=
4)	1767	-	562	=
5)	100	÷	4	=
6)	9.9	+	0.09	=
7)	5	×	6 × 8	=
8)	12 ²			=
9)	50	% of	520	=
10)	5	-	3	=
	9		9	=

Mental Arithmetic Calculations				
1)	971	+	900	=
2)	210	×	7	=
3)	6.6	+	5.9	=
4)	1560	-	604	=
5)	192	÷	8	=
6)	6.7	+	0.02	=
7)	3	×	8 × 9	=
8)	10 ²			=
9)	40	% of	1270	=
10)	9	-	7	=
	13		13	=

Mental Arithmetic Calculations

1)	968	+	700		=
2)	231	×	6		=
3)	2.1	+	2.8		=
4)	1615	-	551		=
5)	200	÷	8		=
6)	5.8	+	0.02		=
7)	3	×	4	×	9 =
8)	9^2				=
9)	50	% of	420		=
10)	7	-	5		=
	11		11		=

Mental Arithmetic Calculations

1)	954	+	400		=
2)	177	×	11		=
3)	3.1	+	4.6		=
4)	1834	-	508		=
5)	95	÷	5		=
6)	5.6	+	0.03		=
7)	4	×	3	×	8 =
8)	11^2				=
9)	50	% of	170		=
10)	6	-	5		=
	9		9		=

Mental Arithmetic Calculations

1)	993	+	100		=
2)	203	×	12		=
3)	2.4	+	9.2		=
4)	1273	-	643		=
5)	133	÷	7		=
6)	7	+	0.04		=
7)	6	×	3	×	4 =
8)	3^2				=
9)	30	% of	1250		=
10)	4	-	1		=
	6		6		=

Mental Arithmetic Calculations

1)	989	+	200		=
2)	138	×	5		=
3)	8.7	+	8.7		=
4)	1218	-	796		=
5)	72	÷	4		=
6)	7.3	+	0.04		=
7)	4	×	4	×	7 =
8)	6^2				=
9)	70	% of	750		=
10)	9	-	8		=
	13		13		=

Style	Question	Working
Addition	3 digit + 3 digit number (954 + 200)	Count on in hundreds. (954, 1054, 1154).
Multiplication	3 digit x 1 digit	<p>342 × 7 becomes</p> $\begin{array}{r} 342 \\ \times 7 \\ \hline 2394 \\ \hline 21 \end{array}$ <p>Answer: 2394</p>
Addition of decimals	1dp + 1dp	<p>789 + 642 becomes</p> $\begin{array}{r} 789 \\ + 642 \\ \hline 1431 \\ \hline 11 \end{array}$ <p>Answer: 1431</p>
Subtraction	4 digit - 3 digit	<p>932 - 457 becomes</p> $\begin{array}{r} 8 \quad 12 \quad 1 \\ 932 \\ - 457 \\ \hline 475 \end{array}$ <p>Answer: 475</p>
Division	3/2 digit number ÷ 1 digit	<p>Short division</p> <p>98 ÷ 7 becomes</p> $\begin{array}{r} 14 \\ 7 \overline{) 98} \\ \underline{7} \\ 28 \\ \underline{28} \\ 0 \end{array}$ <p>Answer: 14</p>
Addition	1 decimal place + 2 decimal place	Make sure that the ones, tenth and hundredth columns are set out correctly to make this question easy to work out.
Multiplication of 3 numbers	1 digit x 1 digit x 1 digit (2 x 4 x 6)	Work out in order from left to right. 2 x 4 = 8, 8 x 6 = 48
Squaring (multiplying a number by itself)	4 ²	4 x 4 The small '2' symbol means multiplied by itself.

Percentage	Number% of a number. (20% of 350)	First of all find 10%. You do this by dividing the number by 10. ($350 \div 10 = 35$). Then multiply the 10% figure by how many 10% you need. (To find 20% multiply the 10% figure by 2, 30% multiply the 10% figure by 3, etc). $35 \times 2 = 70$. Therefore 20% of 350 = 70
Fractions	Simple fraction subtraction.	When subtracting fractions with the same denominator (the same bottom number) the denominator won't change. Think of it like this: There are $\frac{3}{4}$ of a cake and you eat (take away) $\frac{1}{4}$. How many quarters are left? $\frac{2}{4}$ (which is also = $\frac{1}{2}$)

Reading

In the following section, there will be a short passage of text followed by some comprehension questions to answer. If there is more than one line to give your answer on, then an extended answer is expected.

War Horse - Chapter 1

My earliest memories are a confusion of hilly fields and dark, damp stables, and rats that scampered along the beams above my head. But I remember well enough the day of the horse sale. The terror of it stayed with me all my life.

I was not yet six months old, a gangling, leggy colt who had never been further than a few feet from his mother. We were parted that day in the terrible hubbub of the auction ring and I was never to see her again.

She was a fine working farm horse, getting on in years but with all the strength and stamina of an Irish draught horse quite evident in her fore and hindquarters.

1) Why are the earliest memories 'a confusion'?

2) How were mother and colt separated?

3) According to the text how are the stables described? Give **two** examples.

_____ and _____

4) How can you tell the mother is still a 'fine working farm horse'?

5) '*... a gangling, leggy colt*' What does this tell you about the horse?

6) What is another word for 'scampered' that could have been used in the text?

An extract from *The Hobbit*

The dark filled the room, and the fire died down, and the shadows were lost, and still they played on. Suddenly first one and then another began to sing as they played, deep-throated singing of the dwarves in the deep places of their ancient homes; and this is a fragment of their song.

*Far over the misty mountains cold
To dungeons deep and caverns old
We must away ere break of day,
To seek the pale enchanted gold.*

*The dwarves of yore made mighty spells,
While hammers fell like ringing bells
In places deep, where dark things sleep,
In hollow halls beneath the fells.*

1) What does the author mean ...'and the shadows were lost'?

2) What are the dwarves doing while they sing?

3) When do the dwarves intend to set off from the house?

4) What can you infer about the dwarves from the lines below?

The dwarves of yore made mighty spells,

While hammers fell like ringing bells

- 5) What does the word 'seek' mean in the passage:
'To seek the pale enchanted gold'?

- 6) What does the phrase 'To dungeons deep and caverns old' imply about the adventure the dwarves are about to undertake?

- 7) What rhyming pattern has the author used in the song?

Writing

Below are one shorter and two longer tasks for you to complete. The shorter tasks should take around 20 minutes. The longer task should take no less than 45 minutes.

Shorter task - Creature Spotter

You are out walking through East Town Park one day when you see a creature sitting in some bushes not far off. Not having taken a camera with you to the park, you will need to write a descriptive passage of what the creature looks like.

Longer task 1 - A Play Script

Your task is to continue the play script set out below and then turn it into a story using dialogue.

Joe: (pleading) Dad, can you buy me this new toy please?

Dad: I don't know. It depends what it is.

Mum: And how much it costs.

Longer task 2 - A Story

Set your creative juices flowing. Write an adventure story with a great beginning, build up, problem, resolution and ending.

Spelling, Punctuation and Grammar (SPAG)

Below are some questions for you to complete. Afterwards there are some SPAG challenges to complete.

Which sentence uses **capital letters** correctly?

From april, Swimming Lessons will take place o tuesdays.

From April, Swimming Lessons will take place on Tuesdays.

From april, swimming lessons will take place on Tuesdays.

From April, swimming lessons will take place on Tuesdays.

Guidance: All proper nouns need capital letters. The proper nouns in the sentences above are:

_____ and _____

Insert **commas** into the correct places in the sentence below.

I have three pens a rubber two sharp pencils and a yellow pencil case.

Guidance: Commas separate items in a list. There should be a comma between each thing in the list **except the last two**. The last two items are separated with 'and' or 'or'.

Write a suitable **question** to fit the answer below.

Remember to use correct punctuation - yes that does include capital letters.

'She has a pet dog.'

Rearrange the words in the question below to make it a **statement**.

Do not use additional words.

Punctuate your sentence correctly.

Is this book new?

This _____

Circle **all** the **articles** in the sentence below.

Josh longed for a cold drink in the hot weather.

Guidance: An **article** is a kind of adjective which is always used with and gives some information about a noun. There are only two **articles** 'a' and 'the', but they are used very often and are important for using English accurately.

Circle the **adjective** in the sentence below.

Gareth waited nervously behind the curtains before he walked onto the empty stage.

Guidance: An **adjective** describes a noun. Identify the nouns and it is easy to identify the adjectives. Hint: There are three nouns in the above sentence.

SPAG Challenges:

Prefixes are a letter or group of letters that can be added to the beginning of a word to make a new word.

Trans + form = transform.

Trans is the prefix, form is the root word. Transform is the new word that is made.

1) Find out the meaning of the following prefixes and write some words that use them.

Prefix	Meaning	Words with the prefix
Trans		
Bi		
Tri		
Semi		
Aero		
Micro		
Photo		

2)
a

Pick

noun in your house (person, place, thing or idea). Create a mind map with as many adjectives and adjective phrases as you can.

3) Pick a noun in your house (person, place thing, or idea) Create a mind map with as many verbs that relate to your chosen noun.

4) Write a list of feelings (happy, angry, frustration).

Next to each one, write a **synonym** (a word that means the same thing [happy - pleased - content]) and an **antonym** (a word that means the opposite thing [happy - unhappy])

