Name:	
Maths teacher(s):	

I will:
- work to the best of my ability, showing all my workings
- complete my homework to a good standard by the deadline set
- show tenacity when solving problems
- always have the correct equipment for all lessons

Signed:

………………………………………………………

The MVC Mathematics Department will:
- help you develop fluency in mathematical concepts
- help you develop your mathematical communication and reasoning
- help you develop problem solving skills
- set appropriate homework
- regularly assess your progress
- give you regular feedback and let you know what else you need to do to maintain or increase your progress

Signed:

MVC Maths Department

hegartymaths

Online tasks are usually set on
www.hegartymaths.com

To access this site you need to enter your name, date of birth and then set your own password. If you have forgotten your password please contact your maths teacher via email.

Every lesson you will need to bring this equipment:
- exercise book
- learning log
- scientific calculator
- black pen × 2
- pencil × 2
- ruler
- eraser
- pencil sharpener
- highlighter
- glue stick

When advised, you will also need to bring:
- protractor
- pair of compasses
- colouring pencils

Optionally:
- colouring pencils

	HW		Objectives Autumn	Hegarty Tasks
ANum1	—		**Read and write** any numbers up to one million in words and figures, taking care to spell words correctly	
			Recall my **times tables** up to 12x12	
			Find **factors** and **multiples** of numbers	27
			Order numbers with two decimal places and put them on a number line	
			Multiply and divide any number by 10, 100 or 1000	15
			Read and write amounts of **money**, and do money calculations	743,744
			Read **12 and 24 hour clock** times, and tell the time exactly	
			Explain when to **add, subtract, multiply or divide** to solve a problem	
			Use the symbols =, ≠, <, and >	
AAlg1	—		Use a **formula** written in words	
			Use **letters** to represent numbers I don't know	
			Work out an **expression** if I'm told what number the letter stands for Eg if a=5, then a+3=8	
			Write algebra in a **shorter way**, eg a+a+a=3a, a+2b+3a=4a+2b	156
AGeom1	—		Estimate the size of any angle to the nearest 10°	
			Sketch an estimate of an angle to within 10°	
			Use a protractor to accurately draw or measure acute and obtuse angles within 1°	
			Use the fact that angles on a straight line sum to 180° to find missing angles	
			Recognise which nets make cubes and which do not.	
			Make a 3D shape by using its net (Eg: prism or cuboid)	833
			Construct shapes (including nets) using a pencil, ruler and protractor	
AData1	—		Ask questions, plan how to answer them and how to **collect the data** required	
			Make a **tally chart** and **frequency table**	401
			Draw a **bar chart** and label the axes	
			Draw a bar chart for **grouped data**	
			Explain what a bar chart shows	

Number	Algebra	Geometry	Data	Revision	Total	
/	/	/	/	/	/	%

	HW	Objectives Spring	Hegarty Tasks
ANum2	—	Work out **complements** to 100, 1000, 360	
		Recall my **times tables** up to 12x12	10
		Use tables to do **mental division**	11
		Add and subtract 2 digit numbers in my head	
		Use a written method to **add and subtract 3 digit numbers**	18,19
		Use a **written method** to add and subtract decimals	47
		Multiply a **2 digit number by a 1 digit** number eg 14x5	
		Round numbers to the nearest 1, 10 or 100	17
AAlg2	—	Use **number machines** with two steps	
		Use a number machine **backwards**	
		Explain what **inverse** means	177
		Solve equations with letters on only one side	
AGeom2	—	Find an **area** by **counting** squares	
		Find the area of an **unusual shape** by counting squares and estimating	
		Find an area of a rectangle by working out **length x width**	
		Find the **perimeter** by measuring sides	
		Find the **perimeter** when I'm told the **lengths** of the sides	
		Use the correct **units** for area and perimeter	
AData2	—	Find the **mode**	404
		Find the **median**	409
		Find the **range**	410
		Describe a set of data using the mode, median and range	
		Compare two sets of data using the range and the median or mode	

Number	Algebra	Geometry	Data	Revision	Total	
/	/	/	/	/	/	%

	HW		Objectives Summer	Hegarty
ANum3	—		Understand that a **percentage** is a fraction out of 100	81
			Find 10%, 25%, 50% of an amount	
			Say what fraction ($\frac{2}{3}, \frac{3}{5}, \frac{7}{10}$) has been shaded on a **diagram**	
			Shade in a diagram to show a given fraction	58
			Put simple fractions on a **number line**	
			Add fractions with the same denominator	65
			Understand **ratio**. Use the : symbol and use the correct language	
AAlg3	—		Describe patterns in **sequences**, and how to get the next number	196, 197
			Fill in the gaps in a sequence, both ascending (getting bigger) and descending (getting smalleller)	
			Recognise sequences of **odd** numbers, **even** numbers, and **times tables**	
			Make and **draw** sequence patterns	
			Plot coordinates including negatives	199
			Draw and label **axes** correctly	
AGeom3	—		Draw all the **lines of symmetry** on a **regular polygon**	827
			Draw all the **lines of symmetry** on **other shapes**	
			Complete a shape with a **horizontal** or **vertical** or **diagonal** mirror line	
			Explain and use the words **axis**, **object**, **image**	
			Recognise the order of rotational symmetry of a shape	828
			Identify and describe all the properties of isosceles, equilateral and scalene triangles	
			Identify and describe all the properties of special quadrilaterals (square, rectangle, parallelogram, trapezium, kite, rhombus and arrow-head)	825
AData3	—		Put events onto a **probability scale** labelled impossible, unlikely, equally likely, likely, certain	
			Use the **spaces in between** the words to place events	349
			Understand **evens** or **50-50**	

Number	Algebra	Geometry	Data	Revision	Total	
/	/	/	/	/	/	%