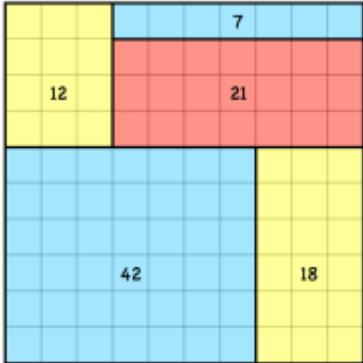|			
Seva School Homework for Autumn 1st half-term 2018			

Autumn 1st half-term theme is: William Shakespeare

Year: 6	Classes: Tarantulas & Scorpions

Information for parents/carers: Each week your child will be expected to pick one challenge from the three given in each subject area below. Over the course of a half term, your child will be expected to have completed six challenges altogether and these must be one from each subject area. Each week homework books will be expected in school on Wednesday morning and they will be marked and returned on Friday. If your child forgets their book or is absent the book will be marked the following Wednesday. If you have any questions regarding the homework, please speak to your child's class teacher for further information and support. Thank you.

Subject	Challenge 1	Challenge 2	Challenge 3
English:	Research William Shakespeare and write an information leaflet about him and his work. Include names of his famous plays and facts about his style of working and his life.	Write a diary entry from the point of view of Macbeth after he killed King Duncan and became the new king. Include key events that have taken place before this and how you felt at various stages. Remember to include the names of key people i.e. Banquo, the witches, Lady Macbeth etc.	Create a presentation (on the computer or on paper) summarising one of William Shakespeare's famous plays. Include details about the storyline, main characters and include pictures in your presentation.
Maths:	Can you answer these? Explain which method you used to an adult at home. 768 x 44= 9234 x 7= 131.76 + 4123.12= 0.041 x 100= 5/11 of 99= 12 x 6 x 9= 2.1-1.8= 23% of 120 68% of 940 Write down all the common factors of 2 and 8 up to 60Four Integers 1. Using four different integers and the x symbol make the highest possible result. All the integers have to be used. For example: 3, 7, 5, 1 gives 157 x 3 = 471 or 37 x 51 =1887. 2. Now chose four other integers and make the largest result using only multiplication.	1. Pascal says that any net made with six squares can be folded to make a cube. Do you agree with him? Explain your reasoning. 2. Tom wrote down two fractions. He subtracted the smaller fraction from the larger and got 1/5 as the answer. Write down two fractions that Tom could have subtracted. 3. All the pupils in a school were asked to choose between an adventure park and the seaside for a school trip. They voted, and the result was a ratio of 5:3 in favour of the adventure park. 125 children voted in favour of going to the adventure park. How many children voted in favour of going to the seaside? 4. I threw away 148 Kg of rubbish, but recycled 1/4 of it. How much rubbish did I recycle? 5. A shark chases 244 fish, and eats 3/4 of them – how many does it eat? Zios and Zepts On the planet Vuv there are two sorts of creatures. The Zios have 3 legs and the Zepts have 7 legs. The great planetary explorer Nico, who first discovered the	 Mondrian must cover the canvas with rectangles. He has done it, but he has not been very successful - why? Mondrian's score is equal to the area of the largest rectangle minus the area of the smallest rectangle. This score must be made as small as possible. Here, it is 42 - 7 = 35 which is much too large! How many different ways can you draw tiles on this sized grid to make the score as small as possible? Write a rule for this activity. **Repeating Patterns** This pattern has been made from squares of two colours.

3. What conclusions can you make?

4. What predictions can you make about 5, 6, digits?

Chicken and Sheep
A farmer looks across a field of chicken and sheep. He counts 26 heads and 74 legs. How many chicken and sheep does he have?
Try to represent this problem in different ways: pictures, models, cubes, graph, algebra, using 26 children, etc

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planet, saw a crowd of Zios and Zepts. He managed to see that there was more than one of each kind of creature before they saw him. Suddenly they all rolled over onto their backs and put their legs in the air.
He counted 52 legs. How many Zios and how many Zepts were there?

Path Pattern

Heather is laying a new path. She is using a mixture of grey and pink slabs. Here is her pattern.

How many pink slabs would she need if her path had a total of:

■ 24 slabs?
■ 40 slabs?
■ 100 slabs?

How do you know your answers are correct?

What colour will the 17th cube in the sequence be?

What about the 20th? 100th cube?

Can you convince someone else you are right?

Can you find a way of predicting the colour of any square?

What about these patterns?
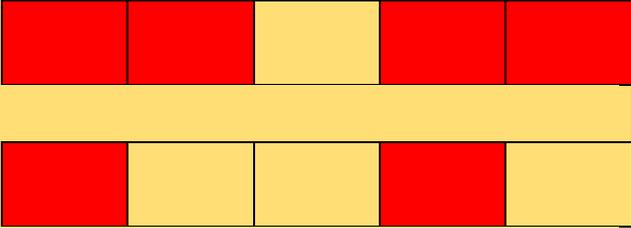
Make up some repeating patterns of your own using two colours.
See if you can find a way of predicting what colour any square will be.

Science:	Design an information poster including key details related to light. You may want to research light before selecting information for your poster.	Carry out an investigation to try and find out how changing the distance between a torch and an object changes the size of the shadow. Ensure your plan your investigation and record your results in an appropriate way,	Create a PowerPoint presentation on a well-known scientist i.e. Benjamin Franklin, Albert Einstein, Thomas Edison, Stephen Hawking. Be sure to include key information related to your chosen scientist's life as well as scientific achievements and accomplishments.
RE	Our RE theme this half term is: 'What do religions say when life gets difficult?' Discuss this question with your parents and note down your findings. Can you identify answers from all of the main religions (Sikhism, Christianity, Judaism, Hinduism, Buddhism and Islam)?	Create a poster including advice on what to do when life gets hard. You may want to include information on what religions say as well your own strategies you may have identified. Your poster should be well presented and easy to read. Try not to include too much writing and have a good balance of images and text.	Research and identify which Sikh gurus were alive during the time of William Shakespeare in the Elizabethan era. Can you identify key facts related to these gurus (date of birth, date they became guru, names of parents, children etc.).

History or Geography	Create a timeline of key events that took place in William Shakespeare's life. Remember to write in note form and not full sentences. Ensure you use arrows in your timeline.	William Shakespeare lived and worked during the Elizabethan era. Create a travel brochure advertising a holiday to London during the Elizabethan era You will need to research what it was like before using a range of methods to persuade readers to go there.	Research another famous poet or playwright and produce a detailed spider diagram including all the information you have found. Be sure to identify key elements about their life as well as their most famous pieces of work.
Art or DT	Draw a portrait of William Shakespeare.	Research artists that were around during the Elizabethan era. Pick one of these artists and create a biography about them. Your biography should include key facts about their life.	Create a collage of various images you can find of William Shakespeare on the internet. You can create your collage using a computer or you can print out the pictures and stick on to paper individually.