

Alchemy Island

Year 5 Learning Log

Date Set: Monday 28th August 2017

Date Due: Wednesday 6th September 2017



<p>Write - Adventure story Your character discovers a portal (you decide what or where) and they travel through it. Where will they arrive? What will they see? Who will they meet? What adventures will they have?</p> <p>Description! Remember to use adjectives and adverbs to bring your story (and your new world) to life!</p> <p>Stretch - try and include a simile in your story.</p> <p>Challenge - include similes and use conjunctions to extend your sentences.</p> <p>Extreme - include similes, conjunctions, relative clauses and interesting vocabulary.</p> <p>A year 5 story should be at least a page of writing! ☺</p>	<p>Read & Write - Challenge - read or watch "The Lion, the Witch and the Wardrobe" or "Harry Potter and the Philosopher's Stone" Write a review for your friends and describe the main characters. How many 'stars' would you award your choice of book or film? Explain why you did (or did not) enjoy the book or film! Extreme - Read or watch both and compare them!</p>	<p>Science - use a magnet to investigate the magnetic properties of metals and objects made from metal around your home. Record your discoveries in a data table. Write a conclusion about what you have discovered.</p>
<p>Art & Design - Portal Portals are gateways to another world. Make a door/gateway that opens and behind it design and create a world that would surprise and astound us!</p>	<p>Science - Alchemist's banquet Stretch - Make a list of foods that change state when heated or cooled, such as eggs, water, butter and chocolate. Challenge - Plan and write a menu for an Alchemist's banquet (including foods from your list!) make sure the menu is illustrated! Extreme - Do all of the above, then create this banquet for your family to eat! (remember to take photos!) Remember - Describe some of the scientific changes that take place in each of the dishes at your Alchemist's banquet.</p>	<p>Write - A report on a precious metal or gem Using the internet or books, write a non-fiction report on a precious metal or gem, such as gold, silver or diamond. Remember to use headings, sub headings and factual information. You can use the websites below for help: http://www.ducksters.com/science/chemistry/gold.php http://gemkids.gia.edu/view-all-gemstones</p> <p>Art & Design - Alchemists travelling kit! Design a costume for an Alchemist to go travelling in - make sure he has all he needs for his adventures. He will need a bag of some sort to carry and collect all the useful things that he might need! Stretch - draw your designs and label them. Challenge - Design your alchemists outfit, remember to label your design, then build/collect the kit and bring it into school! Extreme - design a whole travelling outfit (you could use a blanket or sheet to make a cloak?) and a kit to go with it... make the outfit and take photos of you wearing it - bring the kit/bag to school to show.</p>
<p>Maths - can you complete one OR more of the maths challenges?</p>		

Every week you must also:

- Read your reading book - please bring it to school every day!
- Practice your target timetables.
- Practice the spellings given to you.
- Talk to your Mum, Dad or Carer about your homework.

Parent/Carer Comment:

SELF AND TEACHER ASSESSMENT - to be completed at the end of the half term

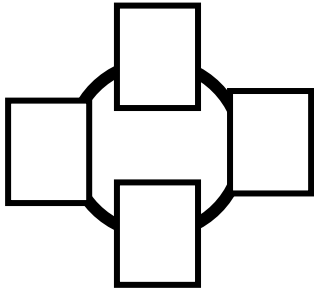
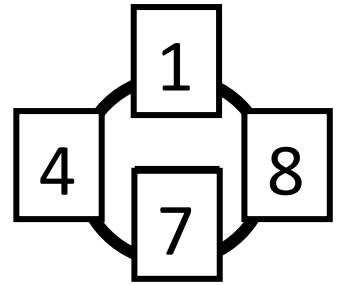
(Pupils tick where you think you are. Teacher please highlight.)

	Good	Great	Outstanding
Presentation	You have presented your work well. You may have used some ICT in your work. You need to take a little more care with your illustrations and/or handwriting	You have used some interesting ways to present your work including sticking extra sheets in and using ICT. Your illustrations and /or handwriting are a high standard.	You have use some creative ways to present your work including sticking extra sheets in and using ICT. Your illustrations and /or handwriting are outstanding.
Effort	You have made good effort with the tasks you have completed.	You have made a great effort with many of the tasks you have completed.	You have made a outstanding effort with all of the tasks you have completed.

Teacher comment:

Stretch - Number-go-rounds

Choose four of the numbers from this list: 1, 2, 3, 4, 5, 6, 7, 8, 9 to put in the squares so that the difference between joined squares is odd. Only one number is allowed in each square and you must use four different numbers.



Copy these number-go-rounds onto a clean page - you should be able to complete at least nine of your own!

Challenge - Mystery Matrix

Have a look at this table square or matrix:
Can you see how it has been constructed?
Why are some numbers in black and some in red?
You will notice that the numbers 2 - 9 are used to generate the matrix and only one of these numbers is used twice (the 2).

x					
	32			40	
					49
			22		
		15			27
			24		
					42

Can you explain why the red 6 is in that particular square?

x	2	3	4	5
2	4	6	8	10
6	12	18	24	30
7	14	21	28	35
9	18	27	36	45

Why is there a 45 in the bottom right-hand corner?

Can you fill in the matrix (table square) here?

The numbers 2 - 12 were used to generate it with, again, just one number used twice.

Copy the matrix (table square) onto a clean page

Extreme - Fifteen Cards

The Alchemist has fifteen cards numbered 1- 15
He puts down a row of 7 cards.
The numbers on the first two cards add to 15.
The numbers on the second and third cards add to 20.
The numbers on the third and fourth cards add to 23.
The numbers on the fourth and fifth cards add to 16.
The numbers on the fifth and sixth cards add to 18.
The numbers on the sixth and seventh cards add to 21.



What are the Alchemists' cards?

Can you find any other solutions?
How do you know you've found all the different solutions?