Sully School School Key Stage 2   2020 -2021

Four Purposes - eg ACL - Undertake research and evaluate critically. ECC - Lead and play different roles

Languages, Literacy and Communication - **Mathematics and Numeracy** - **Science and Technology** - **Humanities** - **Health and Well-Being** - **Expressive Arts**

Autumn	Week beginning: 11.01.20		Year Group: 6		Class Teacher: Mrs Morgan & Miss Martin
	Literacy		Numeracy		Topic
Dydd Llun Monday	**LO: to use an online dictionary to search for word classes and definitions** Firstly, watch the video of Mrs Morgan explaining the activity. Your task today is to create a Frozen Planet themed topic dictionary. You will need to search for the word classes (e.g. noun, verb, adjective, etc) and definitions of the following words: Arctic, Antarctica, glacier, tundra, Inuit, arctic tern, caribou, aurora borealis, climate, adaptation, iceberg, crevasse. Where appropriate, you may wish to add images to your dictionary. You can complete your work on the attached Google Docs or you may wish to create your own dictionary out of paper or card. To finish, please load wordart.com on the attached link and create a Wordle that includes the frozen-themed words in your dictionary. You could even add your own topic-related words to your Wordle. You will need to click on the download button and download it has a standard jpeg file which you		**Key Vocabulary for the week.** **square numbers square root cube numbers** **LO Recognise Prime Numbers** A prime number is a number greater than 1 that can only be divided by itself and 1 without leaving any remainders. Examples of prime numbers include: 2, 3, 5, 7, 11, 13, 17 and 19. $3 \div 3 = 1$ $3 \div 1 = 3$ Sing along to the Prime Number Rap and then watch the video explaining what you have to do. **Chilli Challenge 1**- You need to find all the Prime Numbers between 1 and 100. Colour in all the Prime Numbers on the 100 square and explain what you notice. **Chilli Challenge 2** Find Prime Numbers between 1 and 100. You need to do Chilli Challenge 1 before you do Challenge 2 to find some of the answers. You need to find all the Prime Numbers between 1 and 200 and create some tally charts. Then answer some questions on your findings. **Chilli Challenge 3** Using trial and error, solve the problems. Remember to show all your workings out and explain what you did and what you found out.		**LO: to present my ideas clearly** Your topic work for both today and tomorrow is to research an animal from either the Arctic (e.g. polar bear, arctic fox, snowy owl, narwhal, etc) or Antarctic (penguin emperor penguin, seal, whale). You will then use the information you have gathered to write a DETAILED non-chronological report about your chosen animal. You can choose how you present this report - on Google Docs, Google Slides, as an Adobe Webpage or it can be handwritten with illustrations (you know how much we love a double page spread😉). Your report will need to include the following subheadings: Introduction - a brief introduction about your chosen animal - do not include too much detail here as this needs to be in the main report General facts - e.g. size, weight, length, colour, etc Habitat - Where does your animal live? What have you learnt about the conditions of this habitat? (e.g. climate, etc) Diet - What does it eat? Is it a carnivore/herbivore/omnivore? Adaptations - how is the animal adapted to be able to survive in the habitat?

	can then attach to this assignment - the share function on Wordle only works if you have an account. We cannot wait to see your dictionaries and Wordles!		Please also insert images into your report. You could also include a few 'Fun Facts' or 'Did you know?' boxes MOST IMPORTANTLY, read the information first and make sure you understand it before putting it into your own words. DO NOT COPY AND PASTE FROM THE INTERNET. Please cite your sources at the end by providing a weblink in a google docs, google slides or webpage or writing the name of the website or book if you are handwriting your report. Example vocabulary: generally, mostly, usually, commonly, in addition to this, moreover, amazingly, interestingly topic related words: habitat, adapted, harsh environment, prey, predator, climate Remember that this should take you two afternoon sessions so we expect your work to be detailed. It needs to be submitted on Wednesday afternoon if possible.
Description of Learning.			I can recognise the appropriate language for different audiences and purposes, varying my expression, vocabulary and tone to engage the audience.
Cross Curricular Skills LNF/DCF		**LNF Number Identify prime numbers** **Know prime numbers below 20.**	

| Dydd Mawrth

Tuesday | **LO: to use commas correctly**
Firstly, read the PowerPoint about the different uses of commas - there are lots! When you have a good understanding, choose your chilli challenge and complete the activity on the attached Google Docs document. Please turn in your work once you have checked it thoroughly for spelling and punctuation errors.

We have also attached a link to BBC Bitesize if you need any more help. | .**LO Recognise square numbers .**
To square a number we multiply it by itself eg 4 squared = 4 x 4 = 16. So when we multiply a number by itself we say the answer is a square number a square number.
Remember when you are multiplying 20 x 20, multiply 2 x 2 and then add two 0s eg 20 x 20 = 2 x 2 = 4 = 400.
When you are multiplying 200 x 200 , Multiply 2 x 2 and then add four 0s eg 2x 2 = 4 = 40000

Watch the video clip and the video explaining what you have to do.

Chili Challenge 1-Find the square numbers. Try to do them without using a calculator first and th

Chilli Challenge 2- You will need to estimate in this Challenge. You will need a calculator to find the difference between your estimates and the actual answers.

Chilli Challenge 3 -Involves a lot or trial and error. You will need to check carefully if the numbers are whole numbers or decimals. You will also need to find the square root of the number ie Which numbers when multiplied by themselves give a square number eg the square root of 9 is 3 because 3 x 3 = 9
Pob lwc. | **LO: to present my ideas clearly**
Your topic work for both today and tomorrow is to research an animal from either the Arctic (e.g. polar bear, arctic fox, snowy owl, narwhal, etc) or Antarctic (penguin emperor penguin, seal, whale). You will then use the information you have gathered to write a DETAILED non-chronological report about your chosen animal. You can choose how you present this report - on Google Docs, Google Slides, as an Adobe Webpage or it can be handwritten with illustrations (you know how much we love a double page spread😉).

Your report will need to include the following subheadings:

Introduction - a brief introduction about your chosen animal - do not include too much detail here as this needs to be in the main report
General facts - e.g. size, weight, length, colour, etc
Habitat - Where does your animal live? What have you learnt about the conditions of this habitat? (e.g. climate, etc)
Diet - What does it eat? Is it a carnivore/herbivore/omnivore?
Adaptations - how is the animal adapted to be able to survive in the habitat?

Please also insert images into your report.

You could also include a few 'Fun Facts' or 'Did you know?' boxes

MOST IMPORTANTLY, read the information first and make sure you understand it before putting it into your own words. DO NOT COPY AND PASTE FROM THE INTERNET. Please cite your sources at the end by providing a weblink in a google docs, google |

| | | | slides or webpage or writing the name of the website or book if you are handwriting your report.

Example vocabulary:
generally, mostly, usually, commonly, in addition to this, moreover, amazingly, interestingly
topic related words: habitat, adapted, harsh environment, prey, predator, climate

Remember that this should take you two afternoon sessions so we expect your work to be detailed. It needs to be submitted on Wednesday afternoon if possible. |
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| **Description of Learning.** | LLC WM2 PS3: I can listen and read to gain an understanding of how *grammar* and punctuation affect meaning. | . | LLC WM2 PS3: I can recognise the appropriate language for different audiences and purposes, varying my expression, vocabulary and tone to engage the audience. |
| **Cross Curricular Skills LNF/DCF** | | **LNF** Identify the appropriate steps and information needed to complete the task or reach a solution.
     Explain results and procedures using mathematical language. | |
| **Dydd Mercher**

Wednesday | **LO: to learn the spelling rules 'i before e except after c'**

Firstly read the PowerPoint which explains the rules with the exceptions - there are many!!

When you are confident, choose a chilli challenge to complete on the attached Google Docs document.

Remember to turn in your work after you have checked each sentence. | **LO Recognise cube numbers and square numbers**
Today's work is to be completed on paper as it involves lots of trial and error. Have fun and enjoy working out the calculations.

A cube number is the result of using a whole number in a multiplication three times. Example: 3 × 3 × 3 = 27, so 27 is a cube number. In mathematics, a cube number, also called a perfect cube, or sometimes just a cube, is an integer that is the cube of an integer. For example, 27 is a cube number, since it can be written as 3 × 3 × 3. | **LO Research how animals are adapted to the Polar regions.**
Animals are adapted to their habitat. Living things have developed special features to suit the place they live and to help them survive in their habitat.

Watch the video clips on how animals adapt to survive the extreme weather in the Polar Regions. Research strategies animals adopt to survive winter and the adaptations exhibited by animals in the Polar Regions.

Compare these strategies and identify similarities and differences in the ways animals are adapted to survive throughout the winter. Sort different animals according to whether they migrate, |

		Watch the video clip on cube numbers and the video explaining what you have to do. **Chilli Challenge 1** Complete the grid on square and cube numbers. Using this information, solve the problems. **Chilli Challenge 2 -** Find the value of the following cube roots ie find the number which is multiplied by itself and then by itself again to create the original number eg 27 = 3 x 3 x 3. Also you have some problems to solve involving both square and cube numbers. **Chilli Challenge 3-** Solve some problems involving square and cube numbers. Then use the information in the Carroll Diagram on the worksheet to say whether some statements are true or false. Pob Lwc.	hibernate, store food or grow a thick coat in order to survive over winter. Choose two animals, one from the Arctic and one from Antarctica. Write a report on each animal explaining how they are adapted to the extreme weather and what they do to survive. **Remember to include any similarities and differences between the two animals. You can present it however you would but do remember to use your own words rather than copy out information from a website** Make sure you research a different animal from the work you completed on Monday and Tuesday.
Description of Learning.			LLC WMS4 PS3I can plan and write for different purposes and audiences. I can organise my writing into a logical sequence.

Cross Curricular Skills LNF/DCF		**LNF** Identify the appropriate steps and information needed to complete the task or reach a solution.
		        Explain results and procedures using mathematical language.
			LNF Reading Use a range of strategies for finding information eg skimming for gist, scanning for detail.
			LNF Writing Use varied and appropriate vocabulary including subject specific words and phrases.
			                Use the full range of punctuation accurately to clarify meaning.

Dydd Iau Thursday	**LO: to respond imaginatively to a picture** Load the Google Docs document and look at the Winter King picture. Read the story starter beneath the picture and then answer the questions. Make sure your answers are	**LO Recognise number patterns** **Watch the video clip first.** **Chilli Challenge 1**-Solve the number squares. Write numbers in the squares so that each side in a square has the same total. The first one has been done for you.	**LO Recognise Food Chains.** **Watch the BBC Bitesize clip.** Then click on the link and play the Food Chain game. Choose which level you want to play.

	detailed and that you have checked your work before turning it in to be marked. Enjoy!	**Chilli Challenge 2-** Find the missing numbers and then explain the rule. You might have to use more than one of the four rules ie add, subtract, multiply or divide. The first one has been done for you. You also have to solve some magic squares. Each horizontal and diagonal must add up to 15. Each number from 1 - 9 can only be used once in each square. **Chilli Challenge 3** First of all you need to explain what the rule is and then write the next three numbers in each sequence of numbers. Finally match each algebraic expression to one of the function machines. Remember that n is the missing number. Then write the missing steps for each function machine, explaining the rule and then writing an algebraic equation.	You then need to complete the worksheet. Vocabulary you will be using are consumer, predator, prey, predator, herbivore and carnivore. The first thing you need to do is look up these words in a dictionary and, in your own words, explain what they are, giving examples. There are some questions for you to answer on a food chain. Finally create your own food chain and take a photo to upload.
Description of Learning.	LLC WM3 PS3: I can adapt and manipulate language and make appropriate choices about vocabulary,		LLC WMS4 PS3I can plan and write for different purposes and audiences. I can organise my writing into a logical sequence.

Cross Curricular Skills LNF/DCF		**LNF** Identify the appropriate steps and information needed to complete the task or reach a solution.
		    Explain results and procedures using mathematical language.
			LNF Reading Use a range of strategies for finding information eg skimming for gist, scanning for detail.
			LNF Writing Use varied and appropriate vocabulary including subject specific words and phrases.
			    Use the full range of punctuation accurately to clarify meaning.

Dydd Gwener Friday	**Topic LO: to use shading to create light, medium and dark tones** *Needs to be completed before English*	**LO: Use multiplication tables** **Today's challenges are to be completed on paper.**	**English LO: to use descriptive language** *to be completed after topic* Your English task today is to annotate and describe the imaginary Polar animal you created earlier.

	Your task today is to use all of the information you have learnt about polar animals and how they have adapted to survive in the polar regions to create your very own animal! You will need to draw your animal on paper using a pencil, ensuring that you use shading to create light, medium and dark tones. We have attached some links to different artists on Youtube which you could use for inspiration. Your animal could be entirely made up or it could be a mixture of a number of different polar animals that already exist (e.g. the wings of a snowy owl, the ears of an arctic hare, etc). Your English lesson for today will then be to name your animal and describe it. Draw it on A4 paper, making sure you leave room for the title and to be able to write some descriptions around during your English lesson. Happy sketching! Do not submit your work yet. You can turn it in after your English lesson.	You can choose which of the two activities you want to do or you can do both. They both involve multiplication tables. Watch the video clip and then get your paper and pencil ready and start the challenge. **Challenge 1** Find the digital roots of a multiplication table. **Challenge 2** Crack the Code. **The answers will be published at the end of the day for you to check your answers.** **Enjoy the activities.**	You firstly need to create an imaginary name - be as creative as you like. You now need to use descriptive language to describe your animal. You can describe the different parts of the animal and/or its personality. **Aim to include:** powerful adjectives and adverbs similes personification challenge - a metaphor **Example** Its sharp, dagger-like talons rip violently into its prey. Its magnificent, vibrantly coloured wings are a feast for the eyes. Its sharp teeth wait impatiently to devour its innocent prey. Its dazzling white fur is a thick blanket, enabling it to camouflage into the snow. Majestically, the legendary 'Arcticia' roams his icy habitat like a ruler of a kingdom. Please add your descriptions to your drawing. Use a ruler and a pencil to draw lines off the part of the animal you are describing. Aim to write at least 5 detailed descriptions in your neatest handwriting. Please take a photo of your drawing and descriptions and upload to the assignment or the stream if you would like to share your work with your friends. Extra activity:

			You could download the free Chatterpix app and make your animal come alive! See the attached as an example!
Description of Learning.	HWB WM1 PS3:I can explore and experiment independently and demonstrate technical control with a range of creative materials, processes, resources, tools and technologies showing innovation and resilience.		LC WM3 PS3: I can adapt and manipulate language and make appropriate choices about vocabulary,
Cross Curricular Skills LNF/DCF		**LNF Number** Use multiplication tables up to 10 x 10 .	