



Autumn Term 1 Year 4 Homework Assignments

You **must** choose 4 maths and 4 topic homework assignments to complete in your homework log book. Homework deadlines will be set up by your class teacher. If you want to do extra – that's great! You will receive 10 homework points for every completed assignment. If you gain 100 points you will receive a homework certificate.

<p style="text-align: center;">Maths</p> <p style="text-align: center;">Choose 4 to complete</p>	<p style="text-align: center;">Topic</p> <p style="text-align: center;">Choose 4 to complete</p>
<p>Life on board the Endurance could be slow so Shackleton gave his crew a pack of playing cards to pass the time. He told them to try to find as many different ways as they could to group the cards. See how many ways you can group them.</p>	<p>Plan a diorama to show either the Antarctic landscape or the Endurance expedition (on the ship, lifeboats or camping). Draw pictures with notes or write instructions for how you will make it.</p> 
<p>Design a board game with the Antarctica theme. Make sure there is a maths element to the game.</p>	<p>Make the diorama. If possible, take photos of each stage. Include facts or information that you have learnt.</p>
<p>When Scott was preparing for the expedition, he had to choose which size tents to take for 29 men (including himself). He could choose 3 man, 4 man or 9 man tents. What combinations of size tents could he have taken for all the men to have a tent to sleep in? (They can be all the same size or a mixture). All the tents must be full, e.g. 4 men in a 4 man tent.</p>	<p>What essential items would you take on board if you were a crew member of the Endurance? Why?</p>
<p>The expedition to Antarctica costs a lot of money so each crew member has been asked to contribute to supplies. Pour out the contents of your money box and set out your money in stacks according to their value (e.g. stack all of your 10p coins in one pile and all of your 20p coins in another). Draw a picture of your coin stacks and record how much money is represented by each stack.</p>	<p>When the crew had to get on the lifeboats, they sneaked on one personal possession each. What item would you take with you? Why?</p>
<p>Following on from the previous activity, create a bar chart to illustrate the contents of your money box.</p>	<p>Investigate another Antarctic explorer. Write facts you have discovered. You may present this in a paragraph, poster, information booklet etc...</p>

Shackleton instructed his crew to abandon ship in less than 60 seconds as Endurance was sinking fast. Can you challenge yourself to memorise and recall the 3, 4 and 6 times tables in less than a minute? Ask your parents to time you. Here are some fun interactive games to help you practise your tables.

<http://resources.woodlands-junior.kent.sch.uk/maths/timestable/index.html>

<http://www.ictgames.com/spitfireufo.html>

Thinking about how our class used acting to illustrate the atoms of solids, liquids and gases, draw a picture to illustrate each of the 3 different states of matter. You may want to include labels or add extra information.

* You will need to wait until we have completed the science activity before attempting this homework task.

Shackleton's Dice Ship



This dice model represents the Endurance with a white mast on the bow of the ship. The dice that make up the ship are joined using three rules.

RULE 1: Faces that touch each other have the same number. So, underneath the white die is a 3 touching a 3 on the blue die. The blue die has a 6 on the face that touches the 6 on the middle blue die. The middle blue die has a 1 that touches the 1 on the last die.

RULE 2: The number on the top of the mast must equal the total of the numbers showing on top of the remaining dice that can be seen. So, the 4 on top of the mast equals the two 2's on top of the blue deck.

RULE 3: Always use four or more dice – so you have at least two 'deck numbers' to add up.

Obeying all the rules, how many solutions are possible? You can make models like this one or you could make it longer. Each one you make is to have the mast on top of the front dice.



Shackleton began his expedition from Buenos Aires in Argentina. Research and write down 10 interesting facts about this South American country.

These are the deadlines that we recommend to help you organise your homework diary.

Complete 3 homework activities by **Monday 18th September**

Complete a further 3 activities by **Monday 2nd October**

All homework to be completed by **Monday 16th October**

Have fun!

Year 4 Team