| Class 4 Home learning: Autumn 1 (*tasks are compulsory) | | |
|---|--|--|
| *Maths Investigation | PE / English | *Maths Investigation |
| Light the Lights! | Think of some PE challenges to run for | In this investigation you will be looking at 2- |
| You will need access to the internet to | the whole school. | dimensional shapes. The aim is to explore |
| complete this challenge. The website link is | Describe at least one challenge and | the relationship between the area and perimeter |
| on the back of this page. You may like to | decide who would take part and how you | of shapes – particularly different |
| complete it in <u>Homework Club</u> if you cannot | would organise the event (see below for | types of rectangle. It's useful to remember that |
| access the internet from home. You will | some ideas for team roles). | a square is just a special type of rectangle |
| need to use your knowledge of number | As above, but explain how many | which has 4 sides of the same length. |
| properties to complete this challenge. Do not | people would be needed to actually | |
| look at the solution until you have completed | organise the challenge and what their | Your Task |
| | roles would be, eg, team leader, timer, | Try to find a square which has the same |
| Can you find the rule which lights up and of the lights? Use comparison symbols | scorer, record keeper, referee, judge, | measurement around its perimeter as |
| each of the lights? Use comparison symbols $(< > -)$ to explain each rule. What is the | publicity organiser, photographer | it does for its area (remembering that area is |
| $(\langle \rangle =)$ to explain each full. What is the smallest number which lights up all the | reporter health and safety officer first-aid | measured in squared units, eg, cm^2) |
| lights? | person etc | Draw the shape you've found, and record |
| As above. Did you come up with a | As above, but explain what | any other shapes you tried |
| system for testing the lights? Can you | personality strengths and skills | // As above, but also explore other options – |
| explain what methods you tried (eg. First, I | each person on the organisation | can you find a rectangle with one length twice |
| tried odd numbers and I noticed)? | committee would need to do their job | as long as the other which also has perimeter |
| As above. How could you test each | well. | equal to area? |
| rule to see if it is always true? What is the | Salary As above, and explain how running | As above, and can you show how you |
| smallest number that lights up all the lights. | your challenge would benefit the | calculated these measurements? |
| Can you explain why (using your Maths | school community. You might want to | As above, and what other investigations |
| knowledge) this is the smallest number that | consider British and Christian values. | could you do? Can you find any other |
| will light up all the lights? | | shapes with the same perimeter and area? |
| As above. Can you find a rule that | | |
| makes it impossible to light up any of | | |
| the lights. | | |
| *English Story writing challenge / Editing | RE / English | Topic / English |
| Write a story beginning | | |
| Suddenly | | |
| Include a range of description, action | p - | ji in the second s |
| and dialogue. Make adventurous word | | |
| choices. Use a range of connectives to link | 11 | 11 |
| your sentences. | | |
| <i>III</i> Editing and improving. Write a story | 111 | 111 |
| as above. Now edit it so that it is no more | | lan . |
| than 100 words long. You will have to make | 🎭 | 🌺 🕹 🕹 🖓 |
| some hard choices when you edit your first | | |
| drait so that your story still makes sense and | | |
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| above. Now edit it so that it is exactly 100 words long. You will have to make some really hard choices when you edit your first draft so that your story still makes sense and is exciting to read. Free Choice For example, this could be to do with | *Writing Design your own comet or celestial object | REMEMBER : You need to complete one piece of home-learning each week you are |
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Home Learning Web-Links

Light the Lights! https://nrich.maths.org/7044

Printable paper (lined, grid, graph, etc): https://www.printablepaper.net/