

Razorbill Week 13: Learning Project - Scientists and inventors **Online**

Age Range: Y4/5

Weekly English/Topic Tasks

Monday- Alexander Graham Bell is credited with creating the first telephone. Phones have changed a lot since then. Research how phones have changes over the past 100 years. Create a time line showing the 10 biggest innovations in the development of telephones up to the present day.

Tuesday- Non-chronological reports

A non-chronological report gives factual information but not necessarily in time order. The pyramids were tombs that were built for the pharaohs - the kings. The size of the pyramid is Here is an example report. Using the questions below, read through the text identifying the key features. If any of the features are missing, try to add them.

- Does it have a title to tell you what the writing is about?
- Is there a general opening statement?
- Are there separate paragraphs about different parts of the report?
- Is there technical vocabulary or words specific to the subject of the report?
- Is it in the same tense all the way through? (past, present or future)
- Is there a concluding statement?
- Are there diagrams or illustrations or pictures to help with the report?

The Pyramids of Ancient Egypt¹

believed to signify the level of importance of the person entombed inside. Due to their belief that a mummified person would live forever, the ancient Egyptians built these tombs to keep their bodies safe when they departed from the world.

It is not known how many men it took to build a pyramid, with estimates ranging from 2000 to 100,000! Pyramid building would always happen when the Nile was flooded which is thought to be because the water was used to transport the stone.

The Tomb³

From the outside, the pyramids⁵ look quite simple but inside were various passages and chambers, some with secret entrances and trapdoors.

The mummified⁵ body of the pharaoh⁵ would be placed in a sarcophagus⁵ (a large stone coffin), which was then surrounded by other chambers containing precious items that were thought to be needed in the afterlife. Other chambers might be used for family members.

Hieroglyphics3

The chambers and passages were intricately decorated with pictures and hieroglyphics⁵. At the Pyramid of Unas, many hieroglyphics were found - they are believed to tell stories of the King, religious tales, requests for help from the gods in the journey to the afterlife and serve as a warning to grave robbers!

The Sphinx³

The sphinx⁵ is a mythical creature with a Pharaoh's head, the body of a lion and sometimes the wings of a large bird. The word means 'father of dread' or 'the terrifying one'. Made of limestone, it sits near the Pyramids of Giza and is the largest stone statue in the world, at over 73m long, 19m wide and 20m high. It was believed to have been built during the reign of Khafra with the face made in his likeness. In mythology, the sphinx is believed to have asked impossible riddles and eaten anyone who answered incorrectly.

Wednesday-

Using your timeline from Monday and what you learnt about non-chronological reports yesterday, create a report about the development of phones and the innovations that have taken place. Start from Alexander Graham Bell and work up to the modern day. Please upload your report to the Google classroom work set page.

Thursday- Inventing something new is generally just the first step. As with the telephone, inventions are constantly improved on to refine them and make them better. This innovation can be applied to any product. Watch this clip on how a mountain bike is built. https://www.bbc.co.uk/bitesize/clips/znq4q6f Design a bike to use around Padstow. Does it need suspension? What type of tyres? Gears? Special features? Try to be adventurous and design something that could be the next step in the innovation of cycling. Include notes on the functions of your bike and how it would be made.

Friday- Design challenge!

Watch this video. https://www.bbc.co.uk/bitesize/clips/zgm8mp3 Can you create your own lamp from a single folded piece of paper and some tape?

This video about 3D nets will help you with your design process. https://www.bbc.co.uk/bitesize/topics/zt7xk2p/articles/z247tv4

Can your lamp support its own weight? Could you add an led light to make an actual working lamp? Send in photos if you can!





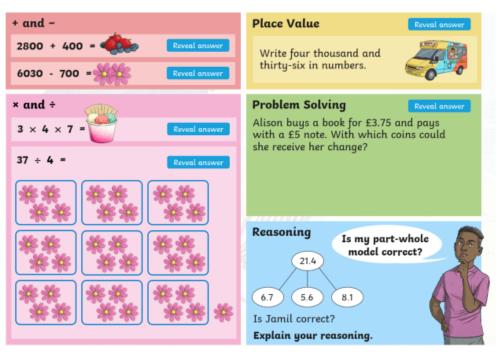




Weekly Maths Tasks-Yr5



home?

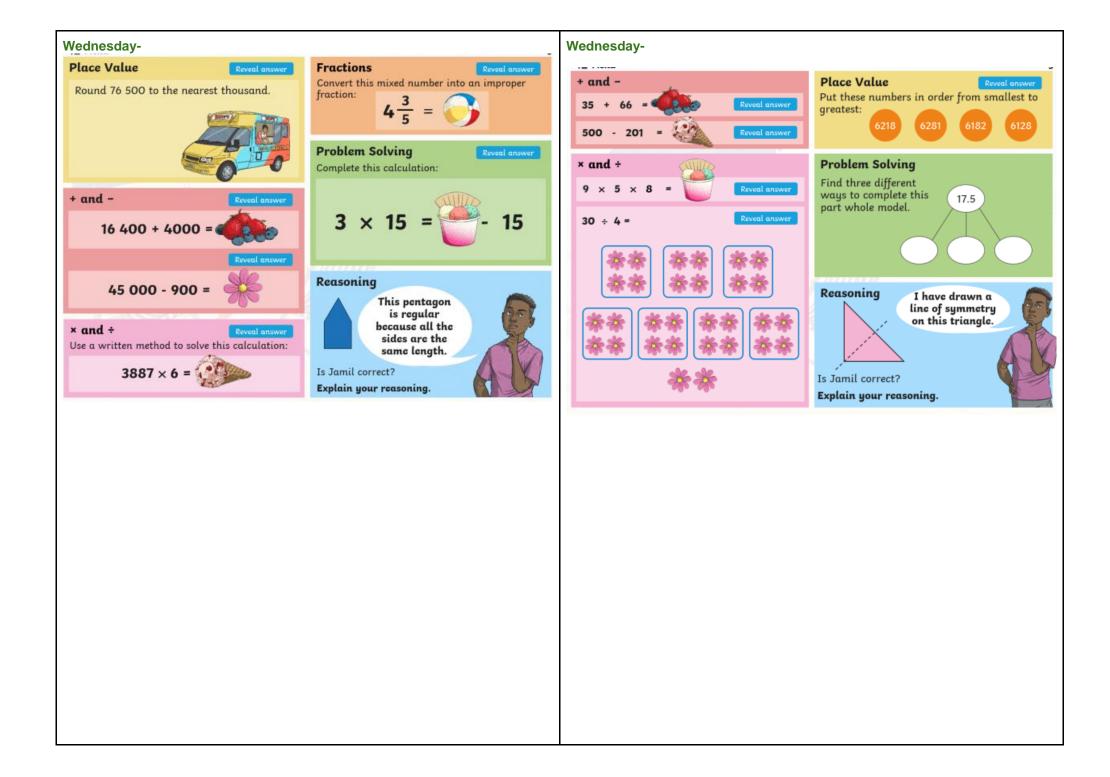


Weekly Maths Tasks- Yr4

Tuesday- Watch the BBC bitesize link about types of angles and also parallel lines. https://www.bbc.co.uk/bitesize/topics/zb6tyrd
Attempt the tasks that are linked to the videos.

Can you find examples of each type of angle and each type of line at home? Can you find any links between the types of angles and the research you did on triangles last week?

Tuesday- Watch the BBC bitesize link about types of angles and also parallel lines. https://www.bbc.co.uk/bitesize/topics/zb6tyrd
Attempt the tasks that are linked to the videos.
Can you find examples of each type of angle and each type of line at



Thursday-.

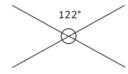
The angles in a full circle add up to 360 degrees. When split into 4 parts each opposite quadrant will have the same value. For example, in Q1 the top quadrant has a value of 122 degrees. The bottom quadrant will also be 122 degrees. 122+122=244.

To find the remaining angles we then do: 360 - 244 = 116.

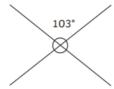
The left and right quadrants will have the same value. 116 divided by 2 = 58. So the left and right quadrant will both have values of 58 degrees.

Calculate and label the size of all the angles where each pair of lines intersect.

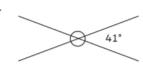
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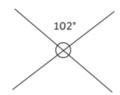
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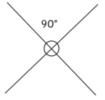
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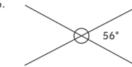
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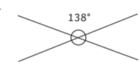
5.



6.



7.



8.



Thursday-

Using your knowledge of angles from last week, try to order these from smallest to largest.

Order these angles from smallest to largest.

1. a)







2. a)



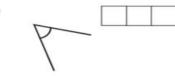




3. α)





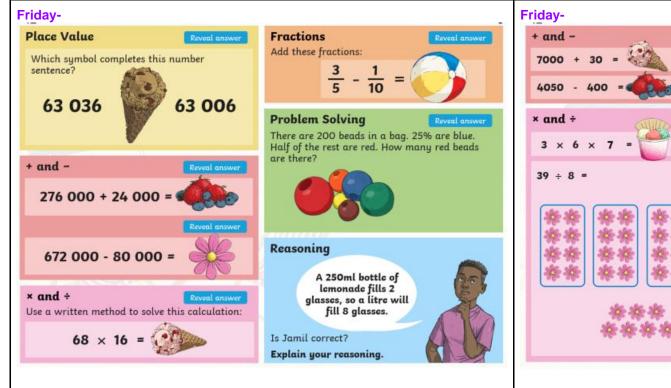


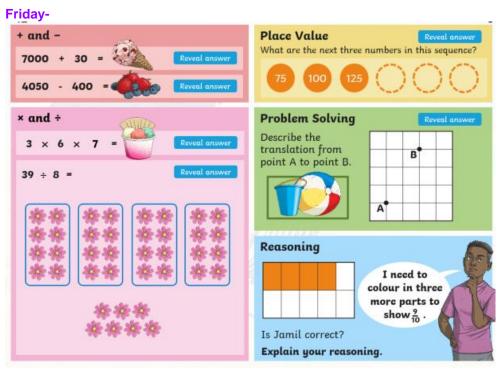
4. a)





Complete the following sentences to explain how to calculate the angles where 2 lines intersect.	9. a) b) c)
 When two lines intersect the total of two adjacent angles is 	
2. If one angle is known, the other can be found by	h — d
3. When two lines intersect the total of all the angles	
4. The angles opposite the point are	
Here are 4 pairs of lines. Estimate the size of each angle, using what you know about angles at a point.	10. a) b) c)
	Challenge Draw three angles in order of size from smallest to largest.





Science/DT Weekly project

Using your knowledge of how sound travels (if unsure check here https://www.youtube.com/watch?v=3yqB2KFwJCo), create the longest cup telephone you can. You only need 2 plastic cups and a length of string to construct these. Be careful when using scissors! How long can you make your phone with it still working? What changes as the string gets longer?

Additional learning resources parents may wish to engage with

- CODE Maths Hub Daily Fluency Activities -
- https://www.topmarks.co.uk/maths-games/daily10 arithmetic challenges
- BBC Bitesize Lots of videos and learning opportunities for all subjects.
- https://www.thenational.academy/ A large selection of video lessons and learning resources. These cover a range of subjects including maths, English, art and languages.

- Classroom Secrets Learning Packs Reading, writing and maths activities for different ages.
- Twinkl Click on the link and sign up using your email address and creating a password. Use the offer code UKTWINKLHELPS.

