This week we will be looking at coordinate grids. This will involve plotting shapes in grids, reflecting shapes and translating shapes. With coordinates you are given 2 numbers inside brackets. The first number refers to how far along the bottom line you should go (X axis), and the second number refers to how far up the side line you should go (Y axis). You can remember this as along the corridor and up the stairs. You must plot your points on the lines, not in the empty box space. Be exact. Join your points together with a ruler to make different polygons (shapes).

If you have access to the internet, you can look at this webpage to give you more information on coordinates [https://www.theschoolrun.com/what-are-coordinates](https://www.theschoolrun.com/what-are-coordinates)

**1. One push** – draw a grid of ten by ten. These coordinates: (2,2) (3,4) (5,4) (6,2). Shape have you made? Now plot your own and write the coordinates.

**Two push** – grid with 4 quadrants goes from -10 on both axis. Don’t get put off by the negative numbers, it still works in the same way, the first number is for the X axis and the second is for the Y. Plot these coordinates: (-6,4) (2,4) (2,-4) (-6,-4). What shape have you made? Now plot your own shapes.

**Three push** – complete the same as two push but please plot these shapes – a parallelogram, a hexagon, a rhombus, an irregular octagon and a scalene triangle.

2. Using the same grids as you drew yesterday we are now going to reflect shapes. Draw a line of symmetry on your grid. You could do this going straight up, straight across or diagonally (for more of a challenge). Draw a small square on one side of your line of symmetry. Now draw this square reflected on the other side of the line of symmetry. Remember, your corners need to be the same amount of squares away from the line of symmetry each time. Repeat this with other shapes. You could even get a family member to draw a shape and challenge you to write the coordinates of its reflection.

3. Using the same grid again we are now going to translate a shape. This means to shift the shape as it looks up, down, etc. The shape does not change size, does not reflect, does not turn, just moves. Draw a right-angled triangle somewhere on your grid. Now translate it 2 spaces up and two spaces to the right. What are the new coordinates? Repeat with other shapes and other translations. You could even ask a family member to draw the same shape in two places on your grid then challenge you to describe the translation. Or draw a shape, give the translation and challenge you to explain the new coordinates.

4. Let’s have some fun…You could make a large scale grid on the floor using masking tape. Stand on one of the coordinates. Now instruct a family member to stand on a different coordinate. You could give instructions to translate your family member and they could do the same for you. Or, you could play battleships [http://www.papg.com/show?1TMC](http://www.papg.com/show?1TMC)

5. Complete arithmetic practise. Complete TT Rockstars then go onto [https://corbettmathsprimary.com/5-a-day/](https://corbettmathsprimary.com/5-a-day/) and complete at least 5 of the sections. If you do not have access to the internet, you can practise your times tables and related divisions. Also, write down what you can remember about adding and subtracting fractions. Also try with different denominators.

**Weekly Reading Tasks**
- Go on to Oxford Owls and read/ listen to one of the e-books [https://www.oxfordowl.co.uk/](https://www.oxfordowl.co.uk/) login Paget5FS and password Paget123 for SFS; Paget5H and password Paget123.

Keep a note of the books you’ve read in your reading log.

This week we would like you to continue reading Percy Jackson. Try to read a chapter a day, either independently or with an adult. Make sure you find out the meaning of any words you are unsure of.

**Challenge:** can you read a chapter of Percy Jackson in each room in your home! Take photos and post them on twitter – we’d love to see them!

Create a true/false quiz based on what you have read so far

Draw a picture of your favourite character so far. Label it with the words/phrases the author uses to describe the character.

Write down 3 questions you would like to ask Percy Jackson. Now try to write Percy’s answers to these questions.

You can find a copy of this text online at:- [https://getfreestorybooks.weebly.com/uploads/1/0/7/7/10771885/riordan_rick_percy_jackson_the_complete_series.pdf](https://getfreestorybooks.weebly.com/uploads/1/0/7/7/10771885/riordan_rick_percy_jackson_the_complete_series.pdf)

If you do not have access to the text – we do have copies available - please contact the school.
### Weekly Phonics/Spelling Tasks
Go on to Spelling Shed. Work on the 2 assignments that have been set. One focuses on words ending in *ent* and *ence*.
The other focuses on the **Year 5/6 spellings** (see website for list).
- Use the games to practise spelling the words. Make sure you understand the meaning of each word in the assignments set – you could write a definition or write them in to a sentence.
- Ask a member of your household to test you on the 10 words under each assignment – keep a note of your score at the back of your reading log.

You should all have a copy of the year 5/6 spelling words – continue to practise all of these, making sure you can read them, understand them and can spell them.

### Weekly Writing Tasks
**Weekly Writing Tasks** *(Aim to do 1 per day)*
This week we would like to write a biography and an autobiography.

- First make sure you understand what is meant by autobiography and biography. Can you find and record any other words which begin with the prefixes bio and auto?
- Generate a series of questions which will allow you to gather the information you need to write the biography of a member of your household.
- Interview them, using your questions, and record their answers carefully.
- Now write their biography – make sure it is accurate. For an example of a biography see

  - Finally, write your own autobiography! We want to know even more about you! Maybe you could speak to the grown-ups around about any funny stories they know about you from when you were young!

**In all your writing don’t forget to show off:** your accurate use of a range of punctuation; your brilliant descriptive vocabulary; and your amazing range of sentence types.

### Wider Learning project – to be done throughout the week
**Topic- Ancient Greece**

**Research into the Ancient Olympics**-
What sports did they do?
Create a fact file about the Ancient Greek Olympics

**PE**- Try some old or new Olympic events in your garden and upload it to Twitter.

**Art**- Design your own Greek pot (they were designed with Olympic sports all over them)

### Well Being

**Calling all Stay At Home Superheroes:**

We know you are doing a great job at staying at home...well done!

**Notice the good**

Every time you have a fantastic moment; someone shows kindness to you or your family; you achieve something; you do something independently or have a great family moment write it down. You could find a bag, a jar, a hat, an envelope or something. Pop the date on it and it will become a little gratitude journal that you can look back on. You’ll be amazed at how much good you can see when you look for it!

### Additional learning Resources You May Wish to Engage with

- [www.twinkl.co.uk/offer](http://www.twinkl.co.uk/offer)
- [https://www.bbc.co.uk/bitesize/topics/zgsskg7](https://www.bbc.co.uk/bitesize/topics/zgsskg7)  (science topics)
- [https://nrich.maths.org/](https://nrich.maths.org/)  (maths challenges)
- [https://home.oxfordowl.co.uk/](https://home.oxfordowl.co.uk/)  (variety of learning activities)
- [https://www.themathsfactor.com/](https://www.themathsfactor.com/)  Fun maths activities that free to sign up with at the moment
[https://www.bbc.co.uk/teach/supermovers](https://www.bbc.co.uk/teach/supermovers) short bursts of fun activities to practise Maths and English skills. Particularly useful if you have active children

[https://www.bbc.co.uk/bitesize/dailylessons](https://www.bbc.co.uk/bitesize/dailylessons) for activities for many subjects