

**Maths Work**

Maths can be as fun and practical as you wish! You could practice measuring when cooking or spot different shapes around the house! Time is something you could visit multiple times during the day or practising how to count money is also a great activity to do at home.

An excellent Maths resource is WhiteRose. This website is currently providing daily lessons which can be accessed using this link below:

<https://whiterosemaths.com/homelearning/>

In addition to this, here are some specific Year 3 targets for you to practice with your children:

**Number (recap):**

- To read, write and compare numbers up to 1,000 in numerals and in words.
- To find 10 or 100 more or less than any number to 1,000.
- To round any number to the nearest 10, 100.
- To read Roman numerals to 20.

**Addition and subtraction (recap)**

- To add numbers with up to 3 digits using column addition.

**Addition: Column Method**

<p><b>1</b></p> $\begin{array}{r} 453 \\ +348 \\ \hline \end{array}$	<p><b>2</b></p> $\begin{array}{r} 453 \\ +348 \\ \hline 1 \end{array}$	<p><b>3</b></p> $\begin{array}{r} 453 \\ +348 \\ \hline 1 \\ \hline 1 \end{array}$
<p>Place the numbers one on top of the other, lining up the hundreds, tens and ones.</p>	<p>Add the ones and write the answer</p>	<p>Regroup any tens under the tens column.</p>
<p><b>4</b></p> $\begin{array}{r} 453 \\ +348 \\ \hline 01 \\ \hline 1 \end{array}$	<p><b>5</b></p> $\begin{array}{r} 453 \\ +348 \\ \hline 801 \\ \hline 1 \end{array}$	<p><b>6</b></p> $\begin{array}{r} 453 \\ +348 \\ \hline 801 \\ \hline 11 \end{array}$
<p>Add the tens including any tens you have regrouped. Regroup any hundreds under the hundreds column.</p>	<p>Add the hundreds including any hundreds you have regrouped.</p>	<p>Check your answer.</p>

- To subtract numbers with up to 3 digits using column addition.

**Subtraction: Column Method**

<p><b>1</b></p> $\begin{array}{r} 453 \\ -348 \\ \hline \end{array}$	<p><b>2</b></p> $\begin{array}{r} 453 \\ -348 \\ \hline \end{array}$	<p><b>3</b></p> $\begin{array}{r} 4\overset{1}{\cancel{5}}3 \\ -348 \\ \hline 5 \end{array}$
<p>Place the numbers one on top of the other, lining up the hundreds, tens and ones.</p>	<p>Subtract the ones (note that the answer to 3 - 8 is negative).</p>	<p>Exchange a 10 from the 50 to give 13 ones. Subtract the ones: 13 - 8 = 5</p>
<p><b>4</b></p> $\begin{array}{r} 4\overset{1}{\cancel{5}}3 \\ -348 \\ \hline 05 \end{array}$	<p><b>5</b></p> $\begin{array}{r} 4\overset{1}{\cancel{5}}3 \\ -348 \\ \hline 105 \end{array}$	<p><b>6</b></p> $\begin{array}{r} 4\overset{1}{\cancel{5}}3 \\ -348 \\ \hline 105 \end{array}$
<p>Subtract the tens: 40 - 40 = 0</p>	<p>Subtract the hundreds: 400 - 300 = 100</p>	<p>Check your answer</p>

- To add and subtract numbers with up to 1 decimal place.
- To add and subtract numbers mentally (a three-digit and 1s number, a three-digit and 10s number and a three-digit and 100s number)

### Multiplication and division (recap)

- To use short multiplication to times a 2 digit and a 1 digit number.

24 × 6 becomes

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \\ \hline \end{array}$$

Answer: 144

- To divide and share using short division for any 2 digit number divided by a single digit.

$$78 \div 6 =$$

$$\begin{array}{r} 13 \\ 6 \overline{) 78} \\ \underline{6} \phantom{0} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

1 × 6 = 6      3 × 6 = 18

1 remainder left over

- To multiply and divide whole numbers by 10.
- To recall and use multiplication and division facts for the 3, 4 and 8 times table.

### Fractions (recap)

- To recognise, find and write fractions of a discrete set of objects.
- To recognise and show, using diagrams, equivalent fractions with small denominators.
- To compare and order unit fractions, and fractions with the same denominators.
- To add and subtract fractions with the same denominator within one whole.
- Decimals - to count up and down in tenths and to know that tenths arise from dividing an object into 10 equal parts.

### Money (recap)

- Money - to add and subtract amounts of money to give change, using both £ and p in practical contexts.

### Measurement (Next unit)

- Time – to estimate and read time with increasing accuracy to the nearest minute.
- Time - to tell and write the time from an analogue clock (including clocks with Roman numerals from I to XII) and 24-hour clock.
- Time – to know the number of seconds in a minute and the number of days in each month, year and leap year.
- Time - to compare durations of events- record and compare time in terms of seconds, minutes and hours.
- Measures – to measure, compare, add and subtract lengths (m/cm/mm).
- Measures - to measure, compare, add and subtract mass (kg/g).
- Measures – to measure, compare, add and subtract volume/capacity (l/ml).
- Measures – to measure the perimeter of simple 2-D shapes.

## Geometry

- **To draw, identify and describe the properties of 2-D shapes, including the number of sides and corners.**
- **To identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.**
- **I can make 3-D shapes using modelling materials.**
- **To identify horizontal and vertical lines and be able to identify pairs of perpendicular and parallel lines.**

## Position and movement

- **To identify right angles and explain what a right angle is in relation to turns.**
- **To identify whether angles are greater than or less than a right angle.**
- **To use simple coordinates to identify squares on a grid with rows and columns labelled.**

## Statistics

- **To use simple scales (e.g 2,5,10) to be able to interpret and present data using tables.**
- **To interpret and present data using pictograms (scale of 1 and 2).**
- **To interpret and accurately present data using bar charts (scale of 2, 5 and 10).**

Additional fluency websites which your children may be interested in are listed below:

Times tables Rockstars: <https://trockstars.com/>

Sumdog: <https://pages.sumdog.com/>

Topmarks: <https://www.topmarks.co.uk/maths-games/hit-the-button>

### **Here are some practical maths activities that you can do at home:**

- Make a maze on the floor (masking tape works really well if you have it) and write a program for how to get around the maze. You can either go forward or back and you cannot move left or right, only turn.

For example: [Forward 5](#), [Right turn](#), [Forward 6](#), [Left turn](#).

- Similar to the activity above, however, this time can you write a program for how to make numbers or even shapes?

E.g. Square: [Forward 10](#), [Right turn](#), [Forward 10](#), [Right turn](#), [Forward 10](#), [Right turn](#), [Forward 10](#).

- Set up a shop using items in your house. Give them price labels and ask a family member to come and buy some items. How much will it cost altogether? What coins will they need in order to pay? How much change will they get?
- Bake something and have a go at weighing out the ingredients. You could always write out some instructions for a recipe book. We have written instructions in class for a Stone Age recipe, can you remember all the features you need to include?
- Using a tape measure, can you measure yourself and member of your family? Create a bar graph to compare heights.
- Go on a shape hunt around your house looking for 2D and 3D shapes.
- Can you create 3D shapes using junk modelling or plasticine?

- Learn how to tell the time. Can you tell the time to the hour, 5 minute interval or even to the minute interval? Learn about 'past' and 'to' as well. There are also lots of interactive games which I uploaded on our website to help with learning the time.
- Calculate the price it would cost for your family to visit a sea life centre. Which centres work out the cheapest for your family?
- Research the average length of 5 sea creatures in cm. Add them all together to calculate their combined length. Can you convert the length between mm, cm and m?
- Create a questionnaire with tally marks to record the favourite sea creatures of your family and friends (you could call them or video call them to ask). Use your questionnaire results to draw a pictogram.

### Writing / Topic Work

Our topic next term would have been Under the Sea.

Some writing/topic activities which you could do:

- Make an acrostic poem about your favourite under the sea creature.
- Write an 'under the sea' themed story.
- Can you write a playscript about some people trying to do something about plastic pollution?
- Think about what you can see and hear when you are by the sea and have a go at writing a poem – remember to use some imagery in your writing.
- Create a fact file about one of the oceans of the world – remember to use sub-headings in your fact file.
- Create a poster about plastic pollution and what we can do to recycle more plastic.
- Watch some David Attenborough documentaries to find out about our oceans and some of the creatures that live in the sea.
- Create an information leaflet about an important place in the ocean e.g the Great Barrier Reef
- Name and locate the World's oceans and seas on a map.
- Make a list of ways to stay safe when you are near water, like at the seaside.
- Create a quiz about seas, oceans, lochs and underwater creatures. Ask your family to complete it.
- Create a game of 'Snap' to play with a family member by drawing 4 different sea creatures. Draw each creature 5 times, don't forget the drawing need to look identical!

When writing please remember to include:

- **Capital letters, full stops, commas and finger spaces.**
- **Neat** joined handwriting.
- Use **conjunctions** such as because, when, so, but, if, although, since, while, before and until to join sentences.
- Use **fronted adverbials** to start your sentence in different ways to ensure that the reader is engaged. Don't forget your comma!  
<https://www.twinkl.co.uk/resource/t-1-4647-fronted-adverbials-word-mat> Here is a link to a Twinkl word mat for fronted adverbials.
- **Spell the Year 3 and 4** words as accurately as you can. (The spelling mat is on our website)
- Use interesting vocabulary (words). Try to use **WOW verbs** and **adjectives** e.g sprint instead of ran or the crystal, clear waters instead of the blue sea.

### Additional Topic Activities:

- Joe Wicks workout –streamed live through Youtube every day at 9am.
- Can you set up a circuit in your house or garden with different activities? (Push ups, crab walks, step ups, plank, skipping rope, star jumps, frog jumps etc.) Time yourself and record how many of each exercise you can do in a minute. Repeat this on another day and see if you can beat your record.
- Play ‘guess the animal’ by moving like a sea creature and ask a family member to guess which sea creature you are.
- Have a look online for some yoga positions, could you create a yoga class for your family? Go Noodle is a good source for videos for children to keep active. Cosmic Yoga videos are available on YouTube too.
- Can you use household items or body percussion to make a piece of music to represent the sea? Perhaps you could think about changing the tempo for when there is a storm.
- Can you make a family tree? How was life different for ancestors? Perhaps write letters to family members to share what you have learned.
- Can you sketch a picture of a shell? Look closely at all the lines and detail.



- Use different art materials to make a sea collage.
- Use the internet to search for a picture of a sea creature. Can you draw or paint a picture of it?
- Make a boat out of junk modelling. See if it floats or sinks in the baths or sink.
- Design, draw and label a submarine.
- <https://www.youtube.com/channel/UCHSbzBcq6GaXSaSipDWInoA> The Primary Art Class have uploaded some art lessons which are fantastic.
- Complete a float or sink experiment in your sink or bath with ten household items. Make predictions first.
- If you have a garden can you name plants or trees? Are there any buds or blossom blooming?
- Can you get the garden ready for spring? Pulling up weeds can be a gentle form of exercise too. Can you plant anything that you can enjoy nurturing in the coming weeks?
- Bird watching- see what birds you can spot out of your window. Can you find out what type of bird it is? Maybe you could even make some bird feeders using this link: <https://www.bbc.co.uk/cbeebies/makes/bird-feeder?collection=easy-craft-activities-for-kids>

## Science

Our topic for Term 5 is Light, here are some activities to complete:

- Write a non-chronological report about 'light'. Use sub-headings, bullet points, pictures, captions and paragraphs. Include an introductory paragraph, different types of light sources, shadows/shadow size, reflection, refraction etc.
- Here are the spelling for you to learn which link to light:  
light, see, dark, reflect, reflection, surface, natural, star, sun, moon, shadow, blocked, solid, opaque, translucent, transparent, artificial, torch, candle, lamp, sunlight, dangerous, protect, mirror, bright, size, refraction.
  - ✓ Can you create a dictionary using these words? For a challenge, see if you can put them into alphabetical order.
  - ✓ Can you create a word mat to go in the middle of the table which include these words? Decorate it with a light theme.
  - ✓ Can you create vocabulary cards to stick up in your bedroom to help you learn these spellings?
  - ✓ Can you create a word search with these words?
- Can you create a 'True or False' light source quiz for a friend or family member?
- Design a poster to tell people how to dress to be seen in the dark. Explain how to choose clothes that reflect light well.
- Design a new book bag with a reflective strip. What would be the most reflective material for the bag?
- Use a mirror to write a short reversed message to a family member. Then swap messages and try to read them with a mirror.
- Use a mirror to create a symmetrical pattern. Position the mirror on the centre line and ensure the pattern is the same on both sides of this mirror line.
- Can you write a non-fiction book all about mirrors and reflective surfaces? Explain what a mirror is, why it reflects light so well, and how they can be useful. Add some helpful diagrams and illustrations.
- Why not draw a mirror portrait? Look at your face in a mirror and draw what you see!
- Can you make a poster to explain to people how to be safe in the sun? Explain why the sun is dangerous and what you can do to protect yourself.
- Sit in front of a light to create a shadow of your face in profile. Ask a family member to draw around your silhouette. Swap over and draw their silhouette! Alternatively, you can do this with toys.
- Use a torch, or another light source, to create different shadows at home. What shapes can you make? Can you change the shape and size of your shadows? If so, how did you make the shadow bigger / smaller?
- Find some items in your house that are transparent, translucent and opaque. Test them with a torch or light.
- Cut pictures out of magazines or catalogues to create a collage of opaque, translucent or transparent materials.
- Why not make a sundial to see how shadows change throughout the day? Use a paper plate, blue tack and a pencil and place your sundial outside on a sunny day. Draw the position of the pencil's shadow every hour. This can also link to you learning how to tell the time!
- BBC Bitesize Light and Dark video clips:  
<https://www.bbc.co.uk/bitesize/topics/zbssgk7>
- Twinkl- Knowledge information <https://www.twinkl.co.uk/resource/science-knowledge-organiser-light-year-3-t-sc-2549718>

- STEM light activities  
<https://www.stem.org.uk/resources/community/collection/12719/year-3-light>

**Other:**

Collins Resources: <https://connect.collins.co.uk/school/teacherlogin.aspx>

- Music Express: Click on Music Express/ Lesson Bank/ Year 3 – then access the videos you wish to watch
- Science: Click on Snap Science / Teach / Year 3/ Can you see me? – there may be some activities which you may find useful that link to light.

USERNAME: **parent@deanwood.medway.sch.uk** Password: **P@55word** (this is the same as the Big Cat reading books)

Please note you have full access to all the resources including the Science and the Maths.

In addition to this, Hamilton are providing daily English and Maths lessons:

- [https://www.hamilton-trust.org.uk/blog/learning-home-packs/?gclid=EAIaIQobChMI6-SlkarH6AIVw4XVCh0MKwThEAAAYASAAEgIg7\\_D\\_BwE](https://www.hamilton-trust.org.uk/blog/learning-home-packs/?gclid=EAIaIQobChMI6-SlkarH6AIVw4XVCh0MKwThEAAAYASAAEgIg7_D_BwE)

Twinkl also has a variety of resources. You will need to sign up, but the code **CVDTWINKLHELPS** will give you free access to their resources. This website is packed with activities, however, to make it simpler they have created a specific area for work during this special period of time. To access it select the home learning tab, followed by the school closure tab. Here you will find a home routine area, health and well-being and a home learning area. These are split into Early Years (Year R), Years 1 and 2 and Year 3 to Year 6. You will find specific Maths, English, Science, craft and independent activities that the children can do.

- [www.twinkl.co.uk](http://www.twinkl.co.uk)