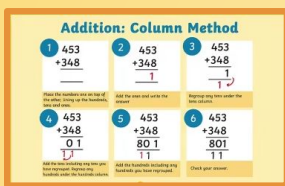
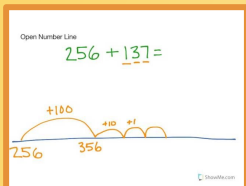
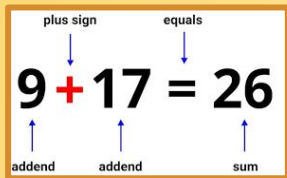
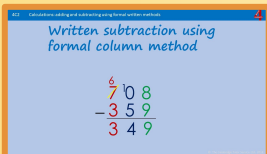
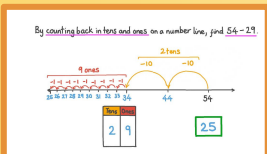
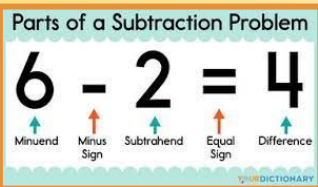


Maths

Addition



Subtraction



Vocabulary

Addition : addend, add, more, plus, sum, total, altogether, increase.

Subtraction : minuend, subtrahend, minus, decrease, take away, difference.

KEY MATH VOCABULARY

ADDITION & SUBTRACTION

increased by **combine**
 add **+** **SUM**
 plus **+** **more than**
 all together

deduct **less** **difference**
 minus **-** **fewer than**
 subtract **-** **take away**
 decrease

Year 3 Autumn Term 2

"Why is light so important?"

Harmony Principle - Independence

The principle of interdependence helps us to understand that everything is connected. We see these inter-relationships at work through ecosystems where every element of the system has a value and a role to play, and also in our own communities when they work well. So, when we plan out learning, the starting point is to see how we can link learning together to give it greater meaning, rather than teaching through separate subjects with little or no connection from one subject to another. The principle of interdependence also reminds us of the importance of good relationships if we are to work well together and the values culture we need to create to enable a collaborative approach to learning to be successful.

Science - Light

These are some of science questions we will be investigating this half term:

- Recognise that we need light in order to see things and that dark is the absence of light
- To know how our eyes work
- Notice that light is reflected from surfaces
- To explore opaque, transparent and translucent Materials
- Recognise that shadows are formed when the light from a light source is blocked by a solid object
- Find patterns in the way that the size of shadows change



Key Vocabulary

- Light
- Light source
- Dark
- Reflect, reflective, reflection
- Ray
- Pupil
- Retina
- Shadow
- Opaque
- Translucent
- Transparent

Literacy

Poetry -

We will be looking at various poems about light, e.g.:

- 'Bed in Summer' - Robert Louis Stevenson
- 'The Light' - James Carter
- 'Silver' - Walter de la Mare

We will be using these poems as inspiration for our own poems about the Northern Lights.

Myths and Legends - Narrative

We will be reading several myths from around the world which involve light, e.g.:

- Why the Sun and Moon live in the Sky (Nigerian)
- Sun Mother Wakes the World (Australian)
- How Raven Stole the Sun (North America - Native Americans)



History - Bronze and Iron Age

- Following on from our learning last half term about the Stone Age we are going to be exploring how the discovery of different materials changed the way people lived. We'll be visiting Maiden Castle to experience life in a hillfort and how they were able to protect themselves from invaders!



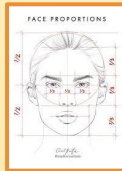
Art - Exploring light

- Exploring how light falls in a picture
- Investigating the use of light in pictures of the night sky
- Studying artists who work with light.



Geometry - Geometry in humans

- Using Geometry to help draw a face
- Portraying ourselves through 'Pop Art'
- What happens when we are not in proportion in our art
- The shapes of the eye - 'Vesica Piscis'



Outdoor Learning - Science

- How does light split into different colours?
- Using the sun to tell time
- Showing the ratios of the solar system in our grounds.



Here are a few ideas for activities that you could try at home during our topic. You are welcome to do as few or as many as you like. Please can the children bring their work in on **Monday 12th December** to share in a showcase?

Create a story using shadow puppets.



Find out how our eyes differ from other animals'.



Find out about creatures that create their own light. Where do they live? What are their adaptations and why?

Find out why rainbows occur. Can you discover anything about the colours in light? Can you find a way to demonstrate this?



Design an experiment. Test which materials would make the best blackout curtains.

Can you make your own sundial to tell the time?



Consider all the different ways we use light in our homes, jobs and towns. Research your local area. How can you present your findings?

Explore bending light. Can you dip a pencil in a glass of water and notice what happens? Can you find out why this happens? Can you find ways to test this in the bath? Write about what you have discovered.