



Year 6 Autumn 2 Topic Web
6S - Miss Saiyed 6W – Ms Wallis

Maths

This half term, we will be learning about fractions, decimals and percentages.

Fractions Knowledge Organiser

Adding and Subtracting Proper Fractions

Same Denominators

$$\frac{1}{7} + \frac{2}{7} = \frac{1+2}{7} = \frac{3}{7}$$

$$\frac{3}{11} - \frac{1}{11} = \frac{3-1}{11} = \frac{2}{11}$$

Different Denominators

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

Adding and Subtracting Mixed Numbers

Add or subtract the whole numbers and fractions separately.

$$2\frac{1}{4} + 1\frac{2}{4} = 3\frac{1+2}{4} = 3\frac{3}{4}$$

$$3 - 2 = 1$$

$$1\frac{2}{3} - \frac{1}{3} = 1\frac{2-1}{3} = 1\frac{1}{3}$$

$$2\frac{1}{2} + 1\frac{1}{2} = 3\frac{1+1}{2} = 4$$

Convert the mixed numbers to improper fractions.

$$2\frac{2}{5} = \frac{2 \times 5 + 2}{5} = \frac{12}{5}$$

$$1\frac{3}{10} = \frac{1 \times 10 + 3}{10} = \frac{13}{10}$$

$$2\frac{2}{3} = \frac{2 \times 3 + 2}{3} = \frac{8}{3}$$

$$1\frac{1}{4} = \frac{1 \times 4 + 1}{4} = \frac{5}{4}$$

Multiplying Proper Fractions

Multiplying Fractions by Fractions

$$\frac{1}{2} \times \frac{2}{3} = \frac{1 \times 2}{2 \times 3} = \frac{2}{6} = \frac{1}{3}$$

Multiplying Fractions by Whole Numbers

$$2 \times \frac{1}{3} = \frac{2 \times 1}{3} = \frac{2}{3}$$

Fractions of Amounts

Find the whole

$\frac{1}{3}$ of the whole = 24
 $\frac{1}{8}$ of the whole = 24 \rightarrow 8 \times 8 = 64
 The whole is 8 \times 8 = 64

Find $\frac{1}{4}$ of 120:
 $\frac{1}{4}$ of 120 = 120 \div 4 = 30
 $\frac{3}{4}$ of 120 = 3 \times 30 = 90

We will also be learning about measurement.

Converting Mass

1 tonne = 1000kg	$\frac{1}{1000}$ kg = 0.25kg = 250g
1000g = 1kg	$\frac{1}{2}$ kg = 0.5kg = 500g
$\frac{1}{10}$ kg = 0.1kg = 100g	$\frac{1}{4}$ kg = 0.25 = 250g

Converting Capacity

1000ml = 1l	$\frac{1}{1000}$ l = 0.001 = 1000ml
$\frac{1}{1000}$ l = 0.001 = 1000ml	$\frac{1}{2}$ l = 0.5l = 500ml
$\frac{1}{10}$ l = 0.1l = 100ml	$\frac{1}{4}$ l = 0.25l = 250ml
$\frac{1}{1000}$ l = 0.001 = 1000ml	$\frac{1}{1000}$ l = 0.001 = 1000ml

Converting Length

1000m = 1km	$\frac{1}{1000}$ m = 0.001m = 1000m	$\frac{1}{1000}$ m = 0.001m = 1000m
1000cm = 10m	$\frac{1}{100}$ m = 0.01m = 10cm	$\frac{1}{1000}$ m = 0.001m = 10cm
100m = 1km		

In arithmetic lessons, we will continue to focus on ensuring all learners are secure in the four operations and can recall of their times tables. We will also encourage learners to be able to recall prime, squared and cubed numbers.

Your child also needs to be able to tell the time using an analogue clock.



English

Following on from the visit by the Young Shakespeare Company, learners will be writing their own witches' chants. They will be writing in role as Lady Macbeth by writing a persuasive letter to Macbeth. They will also have the opportunity to write a narrative for one of the scenes from Macbeth and a newspaper report about the King's coronation.

We will be focusing on a number of grammar objectives including:

- modal verbs
- dialogue to move action on
- adverbials
- subordination

Reading

As a school, we have started using a new reading scheme called Ready Steady Read Together. Each lesson follows a sequence of explore, teach, practise and apply, which is designed to enable children to activate prior knowledge and then practise and apply comprehension skills.

This half term we will be looking at the following texts:

- On the Move (P)
- Black Beauty (F)
- The Diary of a Young Girl (NF)
- Digging for Victory (P)
- The House with Chicken Legs (F)
- The Place for Me (NF)

Please encourage your child to recall the vocabulary they have learnt in school each day.

Science

This half term, we will be learning about evolution and inheritance.

Golden Knowledge (everyone must know and be able to explain this information)

- Living things have changed over time.
- Fossils provide information about living things that lived on the Earth millions of years ago.
- Living things produce babies of the same kind. Usually they are not identical to their parents.
- Animals and plants adapt to suit their environment in different ways.

As part of our study, we will be visiting Yorkshire Wildlife Park to learn how animals in the wild have adapted to their habitats.

Your child will bring home a knowledge organiser to share the learning that will be taking place this half term.

History

For the next few weeks we will continue with our study of Ancient Greece. We will be learning about Alexander the Great and what made him one of the greatest military leaders of all time.

Golden Knowledge (everyone must know and be able to explain this information)

- When Alexander the Great took over the empire of Macedonia, he secured the whole of Greece along with other lands that he conquered.
- He fought against the Persian Empire to the East
- After Alexander the Great died aged 32, the Romans took over parts of the empire.

PE

This half term we will be learning about volleyball and gymnastics.

PE will continue to be on Tuesday and Friday for both classes.

Learners should come to school in PE kit, which must be plain black jogging bottoms or leggings and a plain white t-shirt. No jewellery, including earrings and watches, can be worn for PE and if possible should be left at home on PE days. If girls wish to keep their headscarf on, it must be a tight fitting sport specific scarf for safety reasons.

RE

Learners will continue to learn about how and why Jewish festivals are celebrated.

Towards the end of this half term, they will learn about the importance of advent and Christmas for Christians.

Music

In music, learners will explore rhythmic patterns using Kodály rhythm syllables such as 'TA' (crotchet), 'Ti-Ti' (quavers), 'SH' (crotchet rest), and 'TWO' (minim). They will experiment with clapping rhythms and canons to develop their understanding of pulse and rhythm.

DT

In DT this half term, we will be learning to use computer aided design to create a pattern for a device. Once we have created our pattern, we will be using the template to create the product by cutting and sewing the pattern. We will learn different sewing techniques including running stitch, blanket stitch and back stitch.

Computing

In computing we will be learning about the use of data including barcodes, QR codes, infrared and RFID technologies.

We will learn:

- what QR codes are and how to create our own codes.
- how infrared and RFID technology works.
- how to take real-time data and enter it effectively into a spreadsheet.
- present collected data to answer a question.

PSHE**Homework**

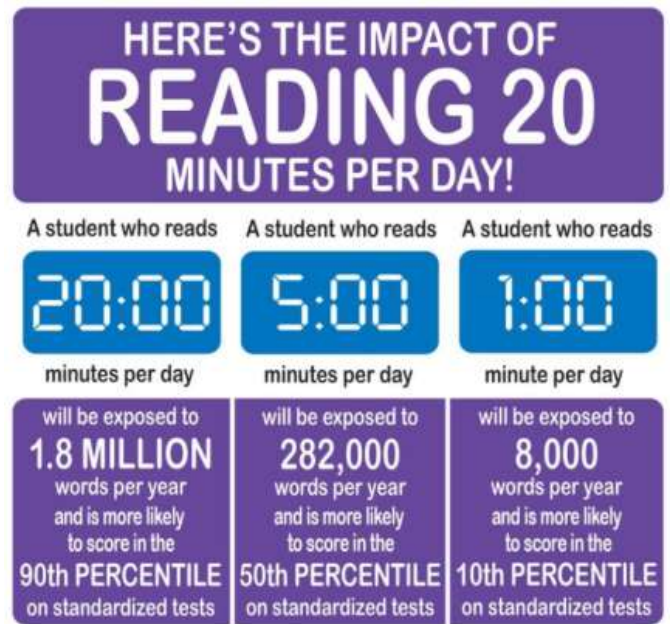
In PSHE, we will be learning about keeping safe. We will be learning about:

- how data is shared
- why social media has age restrictions.
- how vaping and smoking can lead the addiction and the issues this can cause.

Anti-Bullying Week takes place week commencing 10th November and the theme this year is 'Power for Good'. We will be learning how we can be a good friend and role model.

At the end of this half term, we will be learning about the life of Malala Yousafzai as part of Asian Achievement Week.

As a reminder, we expect learners to read at home for at least 10 minutes per day. Parents/carers should sign learners' reading records at least once a week.



Learners are also expected to learn and practise their weekly spellings.

They are also expected to complete at least 15 minutes per week on Times Tables Rock Stars, although we would like every learner to aim for 5 minutes per day.