



Year 5 Autumn 1 Topic Web

5AC – Mrs Ahmed and Mrs Chaus

5B – Miss Beard

5M – Miss Mallinson

Maths

This half term, we will be learning about:

Place Value

- Understanding the value of numbers to 100,000 including ordering, comparing and rounding
- Counting in steps of 10, 100, 1000, 10,000 and 100,000
- Rounding numbers
- Roman numerals to 1,000

Addition and Subtraction

- Addition and subtraction with more than 4-digits
- Find missing numbers
- Multi-step addition and subtraction problems

Multiplication and division

- Multiples, factors, prime and square numbers
- Multiply and divide by 10, 100 and 1,000.

How you can help

It is important that learners know all their times tables to 12 x 12 and can recall them quickly. Practise telling the time using both an analogue and digital clock.

English

In English, we will be looking at the book *Curiosity: The Story of a Mars Rover* (written and illustrated by Markus Motum), which is an award-winning non-fiction picture book that tells the real-life story of NASA's Curiosity rover. We will be writing a narrative and a formal mission log.

Grammar

Word:

- Develop an understanding of the use of verb prefixes

Sentence:

- Indicate degrees of possibility using modal verbs
- Use expanded noun phrases to convey complicated information concisely

Punctuation

- Indicate grammatical features using dashes to indicate parenthesis
- Commas after fronted adverbials
- Inverted commas to indicate direct speech

Reading

Kick by Mitch Johnson (F)

The Moon by Hannah Pang (NF)

Fia and the Last Snow Deer by Eilish Fisher (F)

The Nowhere Emporium by Ross MacKenzie (F)

Knowledge Encyclopaedia: Space (NF)

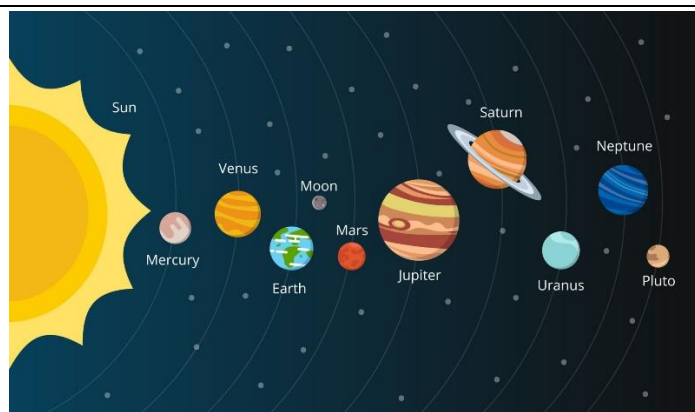
The Puffin Book of Utterly Brilliant Poetry (P)

Science

This half term, we will be learning about space.

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

- **Order of the 8 Planets:** Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune (*A popular mnemonic: "My Very Energetic Mother Just Served Us Nachos"*).
- Earth takes **365.25 days** (1 year) to **orbit** the Sun once.
- Earth takes **24 hours** (1 day) to **rotate** once on its own axis.
- **Why We Have Day and Night:** Day and night are caused by the **Earth's rotation on its axis**, *not* because the Sun moves.
- **Apparent Sun Movement:** Because the Earth spins from west to east, the Sun *appears* to rise in the east, move across the sky, and set in the west.



Vocabulary	
the sun	The largest object in the solar system that the solar system was named after
planets	Large spheres of rock that orbit around the sun
moons	Large balls of rock that orbit planets
asteroids, meteors, meteorites, comets	An example of another rocky object that can be found in the solar system
dust and gas	Left over material from stars that have exploded in the past

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

History

This term, we are learning about the Industrial Revolution (1760 – 1840).

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

- Before around 1760, Britain was a country of small villages, farms, and hand-made goods (**cottage industries**). Over roughly 100 years, invention transformed Britain into an industrial powerhouse of factories, cities, and steam power.
- There were several inventions that changed the world including:

Invention	Inventor	Impact
Steam Engine	James Watt (improved version in 1776)	Powered heavy factory machinery and drained coal mines.
Spinning Jenny	James Hargreaves (1764)	Spun thread much faster than a human could by hand, revolutionising cotton mills.
Locomotives	George Stephenson (<i>Stephenson's Rocket</i> , 1829)	Allowed goods and people to travel across Britain at unprecedented speeds.

Vocabulary

Industrial revolution, agriculture, population, Spinning Jenny, steam engine, locomotion, invention

PE

5B – Monday (swimming) and Tuesday (dance)
 5M – Monday (swimming) and Tuesday (dance)
 5AC – Wednesday (dance) and Friday (rugby)

An additional letter about swimming will be sent out with all the details this week.

5AC will go swimming from February to July.

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 learn about how Sikhs symbolise their commitment to their faith through symbols and rites of passage and the differences this make to Sikhs' daily life.	French In French, we'll be learning to answer the following questions: • J'aime means? • What is the currency used in France? • Vingt-et-un euros means ? • What type of food does a... sell? • Which phrase can be used to say 'I would like' when ordering food? • Which phrase means 'I don't like' when talking about food?												
Art In Art, we'll be: • creating collages using a variety of materials. We will be considering texture, colour, pattern, shape and space. • developing our drawing and sketching skills using a variety of media.	Computing In Computing, we'll be learning about: • staying safe online. • how to create questionnaires in google forms. • Collating and presenting data using google sheets. • Using Canva as a design tool.												
PSHE This half term in PSHE we will be learning how to keep safe by answering the quesitons: • How can we use our phones sensibly? • How can we keep our things safe? • What do I know about drugs • What are the risks with money? • Why are our special people important? We will be celebrating Black History Month at the end of October.	Homework 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. HERE'S THE IMPACT OF READING 20 MINUTES PER DAY! <table><tr><td>A student who reads</td><td>A student who reads</td><td>A student who reads</td></tr><tr><td>20:00</td><td>5:00</td><td>1:00</td></tr><tr><td>minutes per day</td><td>minutes per day</td><td>minute per day</td></tr><tr><td>will be exposed to 1.8 MILLION words per year and is more likely to score in the 90th PERCENTILE on standardized tests</td><td>will be exposed to 282,000 words per year and is more likely to score in the 50th PERCENTILE on standardized tests</td><td>will be exposed to 8,000 words per year and is more likely to score in the 10th PERCENTILE on standardized tests</td></tr></table> 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.	A student who reads	A student who reads	A student who reads	20:00	5:00	1:00	minutes per day	minutes per day	minute per day	will be exposed to 1.8 MILLION words per year and is more likely to score in the 90th PERCENTILE on standardized tests	will be exposed to 282,000 words per year and is more likely to score in the 50th PERCENTILE on standardized tests	will be exposed to 8,000 words per year and is more likely to score in the 10th PERCENTILE on standardized tests
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