



## Welcome back!

We hope you have all had a relaxing and enjoyable Christmas and New Year and are ready for a busy and exciting Spring Term!

This half term, the children will be exploring Space in a unit called 'Earth & Beyond'.

The children will explore our solar system and learn all about our planets, as well as space exploration and part of the history of Space, including the Cold War and how this led to The Space Race. They will also experience the night sky with Mr Chambers in a Planetarium – thank you to Mr Chambers for organising this!

Our novel for this half-term is "Aquila" by Andrew Norriss. The children will produce a range of writing inspired by this book, which links really well to our topic of "Earth & Beyond".

In Maths, we will be continuing our journey through White Rose and will be focusing on Number. Specifically, this will include Multiplication and Division, Fractions, Decimals and Percentages.

Our Science topic this half term runs alongside our ICC topic, where the children will learn all about the Earth, Sun & Moon, and how Ancient Greek Astronomers knew that the Earth was round. We will explore the comparative sizes of the Earth, Sun and Moon and find out about day and night and what causes seasons and lunar eclipses.

You can find out more about what we will be learning this year from our Curriculum Maps. The half term map details our learning through to the end of the half term on Friday 14<sup>th</sup> February.

Class Dojo will continue to run so you can keep up-to-date with everything that's happening in the classrooms! If you need to sign up, just let us know. Please feel free to speak to your class teacher or contact us via the office if you have any questions!

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## DATES FOR YOUR DIARY

Friday 17<sup>th</sup> January: 5R Class Assembly  
Friday 24<sup>th</sup> January: 5B Class Assembly  
Friday 7<sup>th</sup> February: 5BN Class Assembly

## THROUGHOUT THIS TERM...

You will be aware of our visits to Norwich High School for Girls as part of their Science Outreach Programme. Every Tuesday between now and 25<sup>th</sup> February, 20 children will visit the school and take part in several activities planned by Anne Farthing (Teacher of Physics) to enhance their understanding of forces. This is a great opportunity for the children to learn more about this topic in a fully-equipped lab with great equipment!

## PE DAYS

5T: Tuesdays, Wednesdays & Thursdays (swimming)  
5B: Tuesdays, Wednesdays & Thursdays (swimming)  
5R: Mondays and Thursdays  
5BN: Mondays, Tuesdays, Thursdays & Fridays

Please make sure your child has their PE kit in school each week. PE kits include a white T-shirt, black shorts or tracksuit bottoms, and trainers. Some lessons will be outside so children will need the appropriate clothing and footwear for this. Please ensure long hair is tied up or that your child has a hairband with them. For safety reasons, earrings must either be removed or taped up please!

Swimming will continue as per last half term for 5T and 5B until your child has been signed off. Once this happens, the remaining children from 5T and children from 5BN will begin.

**PLEASE ALSO ENSURE THAT CHILDREN COME TO SCHOOL WITH A COAT AND WATER BOTTLE.**

**THANK YOU!**

# Year 5 Optional Activities

to support your child's learning

Spring 2020



## Earth & Beyond

Our ICC topic this half-term is "Earth & Beyond". Here are some ideas for further learning and research you could do at home:

- Choose one Planet and investigate it
- Draw or make a model of the solar system
- Make a model of a rocket
- Design and make a robotic machine for outer space
- Write a story about an alien who came to Earth
- Write a review of your favourite book about space
- Design a menu to entertain an alien who visited Earth
- Find out about Neil Armstrong and why he is famous
- Make a collage of pictures of space
- Produce an information booklet about your favourite Star Wars or Star Trek character.

## Reading Ideas

Here are some ideas for extra reading about Space. Don't forget to visit the Library too!

'The Jamie Drake Equation' by Christopher Edge.

*This is a wonderfully compelling sci-fi story about a boy called Jamie whose father is an astronaut. While his father is completing important work aboard the International Space Station, Jamie is left figuring out life at home and one day he stumbles across clues to alien lifeforms for himself. This story is packed with real space science in a way that is accessible to children and set in the familiar world of the modern child.*

'The Skies Above My Eyes' by Charlotte Guillain & Yuval Zommer.

*Some books are made for sharing and 'The Skies Above My Eyes' is a wonderful example of one. The book folds out into a beautifully-illustrated 2.5m long double-sided journey up through the layers of the atmosphere, with small chunks of informative text along the way. Starting on ground level with a girl standing on a busy street, readers can follow her gaze upwards to pass towering skyscrapers, various aircraft and space vehicles and finally to planets and stars. On the reverse, the girl lays on the grass at the foot of a mountain, looking up towards birds, paragliders, through weather systems, meteoroids and comets. Reading the information from the bottom to the top on one side and then the opposite way round on the reverse feels like a jumping in a space craft and blasting off on a trip to the ends of the solar system and then descending back to the Earth's surface.*

At Avenue Junior School, we no longer set any formal homework. We believe the most important thing you can do with your child is to spend enjoyable time with them. We ask that you read with your child as often as you can to help instil a love for reading.

We have also provided this list of ideas that you can use if you would like to. Please do as many or as few as you wish – and let us know if you have any more great ideas for activities that you and your child enjoy!

## Mathematics

This half term, we are focusing on Multiplication and Division, as well as Fractions, Decimals and Percentages. Please continue to support your child in learning their multiplication tables. These are very important to know and will make learning about Fractions, Decimals and Percentages a lot easier!

As you walk down the street, count in steps of a desired times table as you step on each paving stone or pass a tree. If you're in a queue or waiting for something, count up in a times table and see how far you can get.

When sharing out toys or food, be sure to question children about the different quantities there are and how fractions directly link to decimals and percentages. E.g.:  $\frac{1}{2} = 0.5 = 50\%$ .

## Other activities

- Write a story or diary entry that begins with... "Knowing I would never return to Earth, I....."
- Make a model or paint a picture of what you think an alien would look like
- Design and draw your own space ship. What features would it have? What material would it be made from? Explain how these work and why they were used!
- You can go star-gazing or explore night sky apps
- You could also invent something and link it to space exploration. Visit this website for more info: <https://www.littleinventors.org/>
- Keep a 'Moon Diary' to map the phases of the moon over the month
- Visit an observatory to view the planets in the night sky and learn more about them!

Year 5 Half Term Overview – Spring 1 (2020)

	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6
<b>International Creative Curriculum</b>	<p><b>Earth and Beyond Introduction</b></p> <p>Knowledge Harvest, and introduction to the topic.</p> <p>The history of space travel. Children will learn about the events which led to the Cold War and how this led to The Space Race.</p>	<p><b>Earth and Beyond History</b></p> <p>The Space Race and how it was influenced by the Cold War. Children learn about the importance of USA and USSR during the history of space travel.</p>	<p><b>Earth and Beyond Newspaper Reports</b></p> <p>As a cross-curricular link to English, children will write newspaper reports on the first moon landings. They will look at features of a report and use drama to imagine what it was like to experience this important event in history.</p>	<p><b>Earth and Beyond Art</b></p> <p>Children examine photographs of the moon and create their own images using pastels, chalk and paints. They explore how to create different tones and shades using black and white.</p> <p>Children explore the work of abstract artist Peter Thorpe.</p>	<p><b>Earth and Beyond DT</b></p> <p>Children create their own planet using the knowledge they have learnt. They plan their model then create it using mixed media and papier mache.</p>	<p><b>Earth and Beyond DT</b></p> <p>Children create their own planet using the knowledge they have learnt. They plan their model then create it using mixed media and papier mache.</p>
<b>English: Spoken English, Reading Comprehension and Writing Composition</b>	<p><b>Newspaper Reports</b></p> <p>Children will learn and develop their skills of writing newspaper reports.</p> <p>They will get used to the features of news reports and will be able to create their own.</p>	<p><b>Aquila</b></p> <p>Children will learn the story of Aquila through the reading of the book and will use this to build a news report about a spaceship landing in their community.</p>	<p><b>Aquila</b></p> <p>Children will learn the story of Aquila and will use this to build a news report about a spaceship landing in their community.</p>	<p><b>Biography</b></p> <p>Children will use their learning of Aquila, Space and interviews of Neil Armstrong to write a biography about Neil Armstrong, considering carefully about his actions and feelings about being the first man to walk on the moon.</p>	<p><b>Poems</b></p> <p>Children will use both their knowledge of the story and learning about different poems and poetic features to understand how poems are constructed presented.</p>	<p><b>Poems</b></p> <p>Children will use the skills learnt about poems to create their own 'Shape Poem' in the theme of Space</p>
<b>Vocabulary, grammar and punctuation</b>	Direct and Indirect speech, apostrophes for omission and possession.	Character profiles, personal pronouns.	ISPCED (sentence starters), difference between its and it's.	Modal Verbs, parenthesis.	Figurative language, semi-colons.	Figurative language, calligrams.
<b>Spelling</b>	Words ending in -ible E.g. terrible, possible, visible	Words ending in -ible E.g. terrible, possible, visible	Words ending in -able E.g. reliable, miserable, enviable	Words ending in -able E.g. reliable, miserable, enviable	Words with silent letter 't' E.g. listen, glisten, rustle, castle	Words with silent letter 't' E.g. listen, glisten, rustle, castle
<b>Maths</b>	<p><b>Multiplication &amp; Division</b></p> <p>Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for 2 digit numbers.</p> <p>Multiply and divide numbers mentally drawing upon known facts.</p>	<p><b>Multiplication &amp; Division</b></p> <p>Multiply and divide numbers mentally drawing upon known facts.</p> <p>Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.</p>	<p><b>Multiplication &amp; Division</b></p> <p>Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context.</p>	<p><b>Fractions</b></p> <p>Compare and order fractions whose denominators are multiples of the same number.</p> <p>Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.</p>	<p><b>Fractions</b></p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements &gt;1 as a mixed number. For example:</p> $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$	<p><b>Fractions</b></p> <p>Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</p>
<b>Science</b>	<p><b>Space, the Final Frontier</b></p> <p>Knowledge harvest exploring preconceptions and facts.</p> <p>Children in role as Science Officers on board the ship</p>	<p><b>Space, the Final Frontier</b></p> <p>People have actually known that the Earth is round for 1000s of years – in fact, Ancient Greek astronomers and mathematicians knew this</p>	<p><b>Space, the Final Frontier</b></p> <p>The children will learn a song to help them order the planets in our solar system</p>	<p><b>Space, the Final Frontier</b></p> <p>Understanding what appears to happen to the Earth, Sun and Moon in terms of day / night and what causes seasons.</p>	<p><b>Space, the Final Frontier</b></p> <p>Understanding what causes the phases of the moon and lunar eclipses.</p>	<p><b>Space, the Final Frontier</b></p> <p>Assessment activity where children work together to produce a collaborative piece to show their understanding of this topic.</p>

Year 5 Half Term Overview – Spring 1 (2020)

	have to explain to the crew how they are wrong.	around 2000 years ago! Children to have time to discuss how people may have known this before they could go into space. Share ideas.	and will draw and annotate the solar system itself.			
<b>Computing Media and E-safety</b>	<b>Kodu</b> The children will be introduced to the Kodu Game Lab software and the basics of coding on a different format to Scratch.	<b>Kodu</b> The children will learn how to create a sequence of code to get a desired outcome, controlling a character’s movement and actions.	<b>Kodu</b> The children will create a sequence of code to make characters move, jump, shoot and collect items.	<b>Kodu</b> The children will design and develop a racing ‘Mario Kart’ style game.	<b>Kodu</b> The children will continue developing their game from the previous week, adding additional coding sequences.	<b>Kodu</b> Finishing touches will be added to their games, including scoreboards, timers and changing camera angles. The children can then play each other’s games.
<b>DT</b>	<b>Children will use papier mache to build and make their very own planet.</b>					
<b>PSHE</b>	<b>PATHS</b> Setting goals and reaching your goal – biography of Harriet Tubman.	<b>PATHS</b> Setting goals and reaching your goal – biography of Harriet Tubman.	<b>PATHS</b> Setting a goal – A class project to improve an aspect of the classroom / school.	<b>PATHS</b> Setting a goal – A class project to improve an aspect of the classroom / school.	<b>PATHS</b> Setting a goal – A class project to improve an aspect of the classroom / school.	<b>PATHS</b> Setting a goal and making a plan.
<b>French</b>	<b>Hobbies</b> Children to learn how to discuss their own hobbies and ask about others.	<b>Hobbies – Music</b> Children to learn how to talk about music as a shared common interest.	<b>Hobbies – Musical Instruments.</b> Children to learn the words for common musical instruments to help them discuss music.	<b>Hobbies – The Weekend</b> Children to discuss their plans for the weekend	<b>Hobbies – Films</b> Children to learn how to discuss their own personal film preferences.	<b>Hobbies – Etienne’s new friend.</b> Children to read a story about two children and the range of sports and activities that they enjoy. Children to pick out new/learnt vocabulary.
<b>RE</b>	What is the Qur’an?	What importance does the Qur’an have to Muslims?	How Muslims show their respect for the Qur’an?	Arabic’s special significance to Islam.	Guest speaker: Q and A with local Imam.	Islamic art.
<b>Music</b>	Children will learn the names of the different parts of a ukulele. They will learn how to hold the instrument and how to play two chords.	Children will learn a song that uses two chords. They will rehearse and perform the song.	Children will learn the chords of C major, F major and G major. They will perform different rhythms using these chords.	Children will learn the song ‘Silent Night.’ They will perform by singing and playing the ukuleles.	Children will select their own chords and compose a song. They will fit some lyrics to music.	Children will select their own chords and compose a song. They will fit some lyrics to music.
<b>PE</b>	<b>This half term, the children will be focusing on coordination including catching, throwing, kicking, jumping and hopping, and how these skills are used within games.</b> <b>Swimming will continue at the UEA for children in 5T and 5B.</b>					