Year 5 Spring 2:

Who are the hidden, or not so hidden, figures of space?

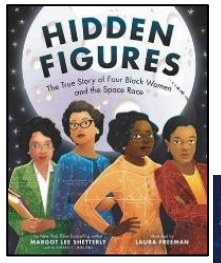
We're reading: Hidden Figures by Margot Lee Shetterly.

Hidden Figures tells the story of four influential women who were pivotal to America's "space race" against the USSR – Dorothy Vaughan, Christine Darden, Mary Jackson and Katherine Johnson. This is a non-fiction book which we are using alongside a range of other information texts and books to expand on their learning. Our work on the previously overlooked figures will be incorporated into History, Science and English.

What we're writing:	A biography and a space inspired creative piece.

Important people or places:

From left to right – Dorothy Vaughan, Katherine Johnson, Mary Jackson and Dr Christine Darden.









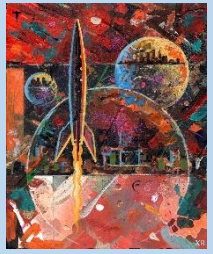
Humanities: History, Geography, Art, Modern Foreign Languages, Religion and Worldviews, Music, RSHE.

As **historians**, we will be learning about the Cold War and the role of the Space Race within this. Amongst other historical events, we will construct timelines, find out about the Moon Landings and decide if the Space Race between the USSR and the USA had a winner.

As **artists**, we are going to explore the abstract work of the artist Peter Thorpe. Through art-history lessons, we will study his artistic style and techniques before applying these to our own work. He specialises in art that uses colour to explore emotions with a strong link to the theme of space.









In **PSHE,** we will be marking International Women's Day and Young Carers Action Day. We will also be learning about the importance of good sleep and will be starting our drugs education unit. More detail around this can be found in our PSHE overview.

As musicians, we will be learning about the music of Delia Derbyshire who released the Dr Who theme. They will be exploring unusual electronic and found sounds to compose music for a short Si-fi film.

As **linguists,** we will be learning some phrases linked to different clothing in French. We will do this through a range of games, songs and activities. This will include some work on verb order.

Humanities Vocabulary	Definition
Segregation	The forced separation of people and treating them differently.
Celestial	Positioned in or relating to the sky, or outer space as observed in astronomy.
Satellite	An artificial body placed in orbit round the earth or moon or another planet to collect information or for communication.
Orbit	The curved path of a celestial object or spacecraft round a star, planet, or moon, especially a periodic elliptical revolution.
Axis	An imaginary line about which a body rotates (in this case, the body is Earth).
Solar System	The collection of eight planets and their moons in orbit round the sun, together with smaller bodies in the form of asteroids, meteoroids, and comets.
Astronomer	An expert in or student of astronomy (the branch of science which deals with celestial objects, space, and the physical universe as a whole).
Jim Crow law	A discriminatory and unfair law that southern states of USA adopted after the abolishment of slavery. This law meant that white and black people were separated so they had no contact. This included parks, cinemas and shops.

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As **computer scientists,** we will look at how databases work and can be created, both offline and online. We will improve our understanding of how computer-based packages allow searches to be undertaken efficiently. This learning will allow us to create our own database to create charts and graphs.



As **scientists**, we will be finding out how humankind has proven the Earth is a sphere and learn about the other planets in the solar system. Lessons will include the reason for day and night, as well as the phases of the moon. As much as possible, we will make our learning visual to help understand the vastness of our universe!

Science, Technology, Engineering and mathematics (STEM): Computing, Design Technology, Maths, PE, Science.

As **mathematicians**, we will continue looking at fractions and link our previous learning to new learning about percentages and decimals. Our lessons will be practical where possible and make links to real-life.

Our lessons this half term will require a strong knowledge of times tables. It is vital pupils know them so they can be used to help make links to new learning.

Schools of Sanctuary:

We will be using the text 'Hidden Figures' to discover the inspirational stories of four black women that were instrumental in the Space Race.

As **sportspeople,** we are playing a range of invasion games. We will be learning about a tactics, including strategies for attacking and defending successfully. Through different drills and activities we will learn how to dribble with control (football, basketball, hockey and other similar sports) and make accurate passes to a teammate.

Swimming lessons will continue on Wednesdays. If your child is going swimming, please ensure they have their kit.

STEM Vocabulary	Definition
Multiply	To increase in number. For example, 17 x 5.
divide	To share – this could be an item, a number or something else.
place value	The value represented by a digit in a number on the basis of its position in that number. E.g. 2**5**1 – the digit 5 represents 50
data	Information which is used to make further improvements.
statistics	Collecting data and using this to learn more about a topic or issue. For example, using Microsoft Excel.



Optional Activities:

Whilst we don't set any formal homework at Avenue Junior School, we are passionate about reading and therefore ask that your child reads for at least 10 minutes a day. The benefits of this are wide ranging and can be felt across the curriculum. In time, children will have access to school library books, and they have books from the classroom too.

It is lovely to do some additional activities at home linked to our work in school and so below we've given a few suggestions of activities you might like to try:

- Make a 3D model of an item from space (planet, rocket, stars or anything else you can think of)!
- Create your own graphic novel that is space-related: it could be about exploring a moon, visiting a planet, Doctor Who or Star Wars themed or anything else linked to our Solar System.
- Make your own alien! You could do this using unwanted items at home, draw or paint it or even using textiles skills like sewing and knitting.
- Research someone who landed on the moon. Create a fact file and present it in any way you like!
- Record how your shadow changes during the day – draw around it or take photos. What did you find out?
- Carry out a science investigation to record the sun rise and sun set times for 2 weeks. Draw a graph to show this and note down what you discover!
- Create and record your own podcast teaching people facts about the solar system.

ClassDojo:

We love to see the work children and families have been doing at home.

Please do send us pictures through ClassDojo and we will make sure that these are celebrated in class!

Likewise, if children have any notable achievements or events outside of school (running, swimming medals, football tournaments etc), we love to hear about these too!

ClassDojo