



Please record your learning in your Home learning book.

# Year 6 Home Learning Space and Aviation

Tuesday 7<sup>th</sup> July 2020

## Soaring Skies Federation

### Daily Activities:

**Handwriting** – Write a section of the biography each day using cursive handwriting.

**Timetables** - 9- and 12-times tables. Work on your Bronze, Silver or Gold awards.

**Reading** - Read aloud for 20 minutes each day.

**Spellings** – Memorise and use each word in a sentence.

### Key Question:

What can you remember from your Space learning?

### PSHCE

#### Harmony

Watch the story of **Androcles and the Lion**.  
When was the last time you showed **gratitude**?

How do you think being thankful relates to the value '**Harmony**'?

How do you feel if life is not **harmonious**?

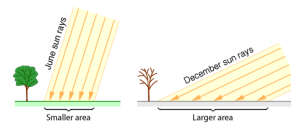
<https://www.youtube.com/watch?v=quigTue2ZtA>

### Maths - Algebra

- $7a - 1 = 13$
- $9b - 1 = 89$
- $3c - 1 = 44$
- $8d - 1 = 87$
- $5e + 1 = 36$
- $2f + 1 = 2,000,001$

### Science:

#### The Seasons



What are the reasons for the seasons? (Google: TED-Ed Rebecca Kaplan)  
Write your own summary.

[https://www.youtube.com/watch?v=DD\\_8Jm5pTLk](https://www.youtube.com/watch?v=DD_8Jm5pTLk)

### Vocabulary and Comprehension

Read the biography of Wernher von Braun and answer the questions:

1. In what year was von Braun born?
2. What did he read as a child?
3. Which two areas of maths did he study to understand rocketry?
4. When did he join the German Society for Space Travel?
5. When did he get his doctorate in physics?
6. What made the V2 missile such a scary weapon?
7. What does 'mastermind' mean?
8. Von Braun was keen for the public to know more about space. True or false? Explain with evidence from the text.

### Useful websites

<https://www.educationcity.com/>

<https://login.mathletics.com/>



Thomas  
rchild  
community  
school

### Topic

#### Writing and Humanities

Create a mindmap that shows all the facts about Space and Aviation that you can remember.



### Creativity

#### Art, Design Technology & Music



### Music:

<https://www.youtube.com/watch?v=RLd9PcZW5PQ>

Listen to the young cellist Sheku Kanneh-Mason perform this divine arrangement of Leonard Cohen's iconic song 'Hallelujah'. **Try drawing while you listen and see what you create.** Show it to a friend or family member and see what they think.

## Biography of Wernher Von Braun



Dr. Von Braun was among a famous group of rocket experimenters in Germany in the 1930s. He is shown second from right in this photo.  
Credits: NASA/MSFC

Dr. Wernher von Braun (1912–1977) was a rocket developer and **champion** of space **exploration**. His story is controversial. As a youth he became **enamoured** with the possibilities of space exploration by reading the work of **science fiction** authors. He studied calculus and trigonometry so he could understand the physics of rocketry. From his teenage years, von Braun had held a keen interest in space flight, becoming involved in the German Society for Space Travel in 1928. In late 1932 he went to work for the German army to develop liquid-fuel rockets. He became Dr. von Braun in 1934, receiving his doctorate in physics.

The V-2 ballistic missile was the primary brainchild of von Braun's rocket team. The V-2 was a particularly **terrifying** weapon. The missiles travelled so fast that victims, most of whom were civilians, often heard nothing until after they struck. For his part, von Braun, who was apparently still interested in space travel, is [said](#) to have remarked that the rockets worked perfectly, *except for landing on the wrong planet*. First successfully launched in October 1942, it was employed against targets in Western Europe beginning in September 1944. The V-2 assembly plant used slave labour.

Von Braun was a member of the Nazi Party and an SS officer.

By late 1944, it was obvious to von Braun that Germany would be destroyed and **occupied**, and he began planning for the post-war era. He **surrendered** to the Americans, along with other key rocket scientists. For fifteen years after World War II, Von Braun worked with the U.S. Army in the development of **ballistic** missiles.



In 1950 von Braun's team moved to the Redstone Arsenal near Huntsville, Alabama, where they designed the Army's **Redstone** and **Jupiter** ballistic missiles, as well as the Jupiter C, Juno II, and Saturn I launch vehicles. A **Jupiter C** rocket orbited the first USA **satellite**, Explorer I, in 1958. However, we now know that the USA could have put a satellite in orbit a year before the Soviet Union's Sputnik – changing the course of history. But the Army's secret satellite programme, **masterminded** by **infamous** Nazi rocket scientist Wernher von Braun, was kept secret from President Eisenhower because he was believed to favour the Navy's rocket program. In fact, the Navy's Vanguard rocket **exploded** on the launch-pad on live TV – **humiliating** the US in front of The Soviet Union and the world.

Von Braun also became one of the most **prominent advocates** for space exploration in the United States during the 1950s, writing numerous books and several articles for magazines. Von Braun also presented three Walt Disney television programs on space travel, *Man in Space*.

In 1960, von Braun became director of NASA's Marshall Space Flight Center and the chief **architect** of the Saturn V launch vehicle, the super-booster that would propel Americans to the Moon. At Marshall, the group continued work on the **Redstone-Mercury**, the rocket that sent the first American **astronaut**, Alan Shepard, on a suborbital flight on May 5, 1961.

Shortly after Shepard's successful flight, President John F. Kennedy challenged America to send a man to the Moon by the end of the decade. With the July 20, 1969 moon landing, the Apollo 11 mission fulfilled both Kennedy's mission and Dr. Von Braun's lifelong dream.

Von Braun died in Alexandria, Virginia, on June 16, 1977.

