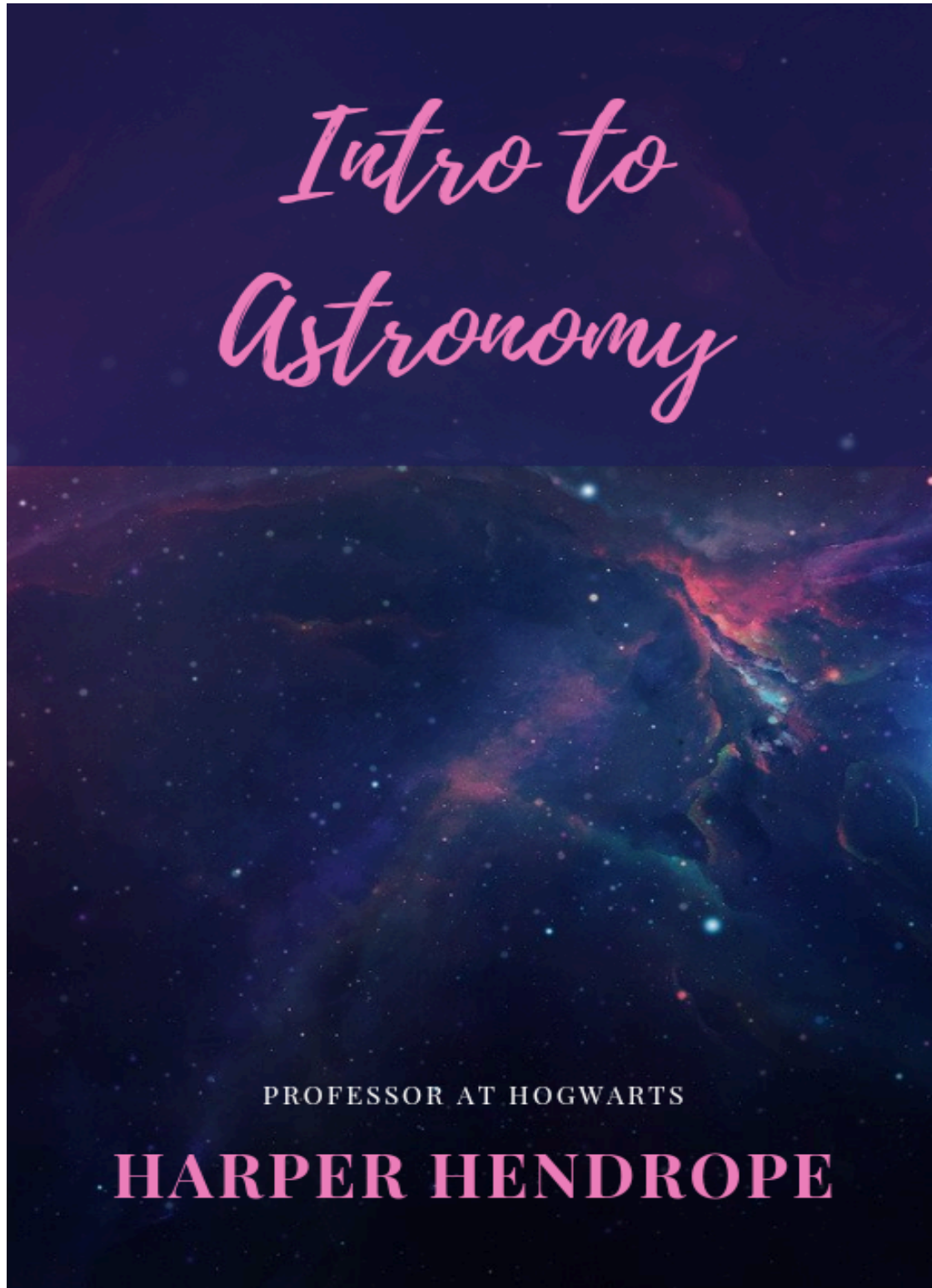


Introduction to Astronomy Book

**Harper Hendrope**

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### **About the Author**

Harper Hendrope was born in Hiroshima, Japan, on 27th July, 1985 to Sara and Akara Hendrope. He, being a Muggle-Born, was never used to the Wizarding Customs. He was always teased by his only elder brother, and he was angry at it. Things slowly changed when he turned 11, he got his Mahoutokoro Letter at his time. His brother became jealous, and guilty for outwitting him always, and he forgave him, as a gift. He was surprised by the customs of Mahoutokoro, as each time, he went on a bird, and came back home. He was sorted out to Shunrai there. He always liked roaming around at the castle, but he'd never get much time, as it was not a boarding school. He excelled in Astronomy and DADA, and took Alchemy and Dueling Club as his greatest passion. He'd be very sad when he left Mahoutokoro. He graduated and became a Muggle Potion Researcher, who expected the aspects of Dark everywhere. He then sought back to the magic, and travelled to London, and trained to be an expert Auror. Then, he resigned, and taught and found Hogwarts with his friends.

### **Author's Note**

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### **Chapter 1 - Introducing Astronomy**

Astronomy. This whole book, and the whole subject at Hogwarts is related to - Astronomy, of course! But, what exactly does the term 'Astronomy' mean? Astronomy is a branch of science, and the study of the space, the sky, The Solar System and the Galaxy. We are only a small speck in the Universe, as there are many many more Galaxies in the Universe, other than Milkyway, which is our Galaxy. The Eight Planets can be identified as 'Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

### **Chapter 2 - Birth of the Solar System and Space**

Our solar system formed about 4.5 billion years ago from a dense cloud of interstellar gas and dust. The cloud collapsed, possibly due to the shockwave of a nearby exploding star, called a supernova. When this dust cloud collapsed, it formed a solar nebula—a spinning, swirling disk of material. There is one theory which is believed for a long time known as the Big Bang Theory. It states that 13.5 Billion Years ago, everything was roaming around in space casually, like Humans, without any burdens. The planets were Kings and Queens, and the dwarfs sons and daughters. Until then, suddenly, a big thunderstorm popped up, and ruined the lives of all the celestial bodies. Comets were fixed near the sun, to their unfortunate time, and meteors were ordered to move to Earth. Beyond everything, Planets were positioned in their places in orbit. At first, all of them were stunned, were they fixed? No, they were set to revolve around the Sun, and they were happy. To Earth's Misfortune, it got to lay over all the burden and stress of people, but

soon, it got company with people. The above written tale is the modified version of the Big Bang. You see, how important the bang was! No Bang, No World.

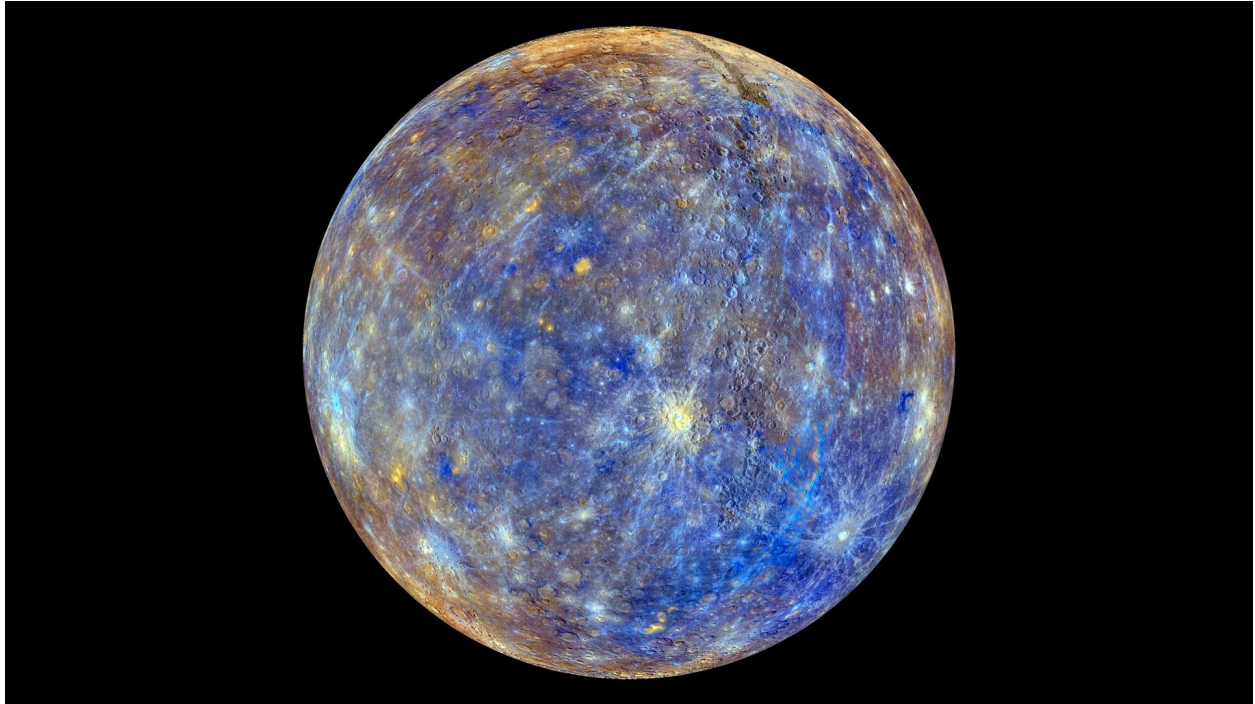
### **Chapter 3 : The Eight Planets**

As mentioned earlier, the Eight Planets can be identified as Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

They can be classified into two categories ;

**Terrestrial Planets** - These planets are mostly made up of hard, terraria systemic rocks, which are the innermost planets, also known as Inner Planets.

**Gas Giants** - These are the outer planets, which are on the outer part of the Solar System. They are mostly made up of abundant gases such as Helium and Hydrogen.



#### **Mercury – The Closest Planet**

Mercury is the smallest planet in our solar system. It has no moons, and revolves the fastest. It takes 59 Earth days to complete one revolution, while the rotation is taking 175.97 days.



### Venus – Twin of Earth

Earth and Venus are like twins, as they are of the same size. It is the hottest planet as, beside being closer to the sun, it's surface is filled with carbon dioxide which makes it hot. It spins anti clockwise.



### Earth – The Blue Planet

The Earth is the only planet which is said to have people living till now. Most of the surface is covered with Water, so it is known as "The Blue Planet".



**Mars – The Red Planet**

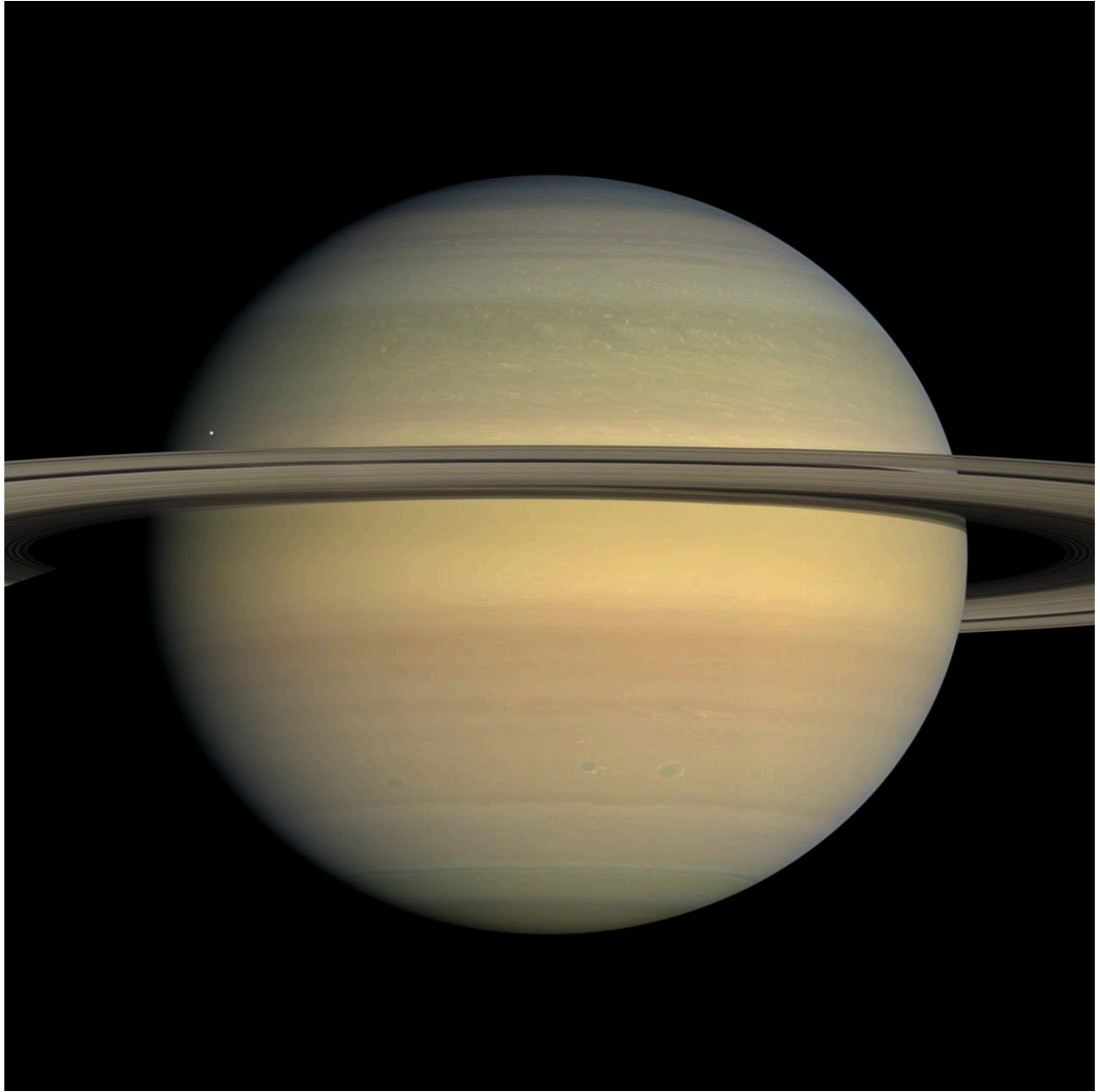
Mars is known as the "Red Planet". Muggle Scientists are currently discovering more about Mars, and have sent many Satellites to Mars, and are looking for life on it. It has two moons named Phobos and Deimos.



**Jupiter – The Largest Planet**

Jupiter is the largest planet in the Solar System. It rotates the fastest, and revolves the slowest. You cannot land on Jupiter. It even has the largest number of Moons. It has a big storm on it, known as the Great Red Spot.





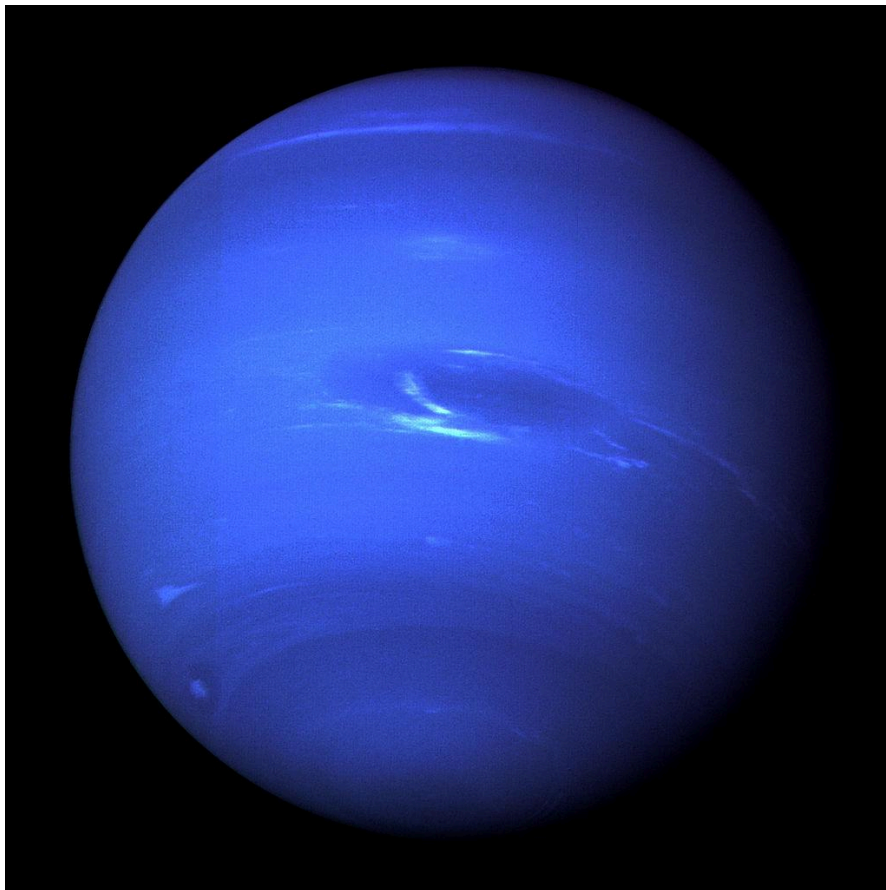
### **Saturn – The Ringed Planet**

Saturn, again being a Gas Giant, does not have a solid surface, and as defined, is made of Hydrogen and Helium mostly. After every 29 and a half years, the planet appears ringless. Many satellites have not visited this planet.



Uranus

It has 27 known moons yet. It rotates west to east(anti clockwise), but it rotates on its edge. The extreme pressures of these planets would even destroy spacecraft.



Neptune cannot sustain life, as it

is very cold and far away from Earth. It has 14 known moons and is an Ice and Gas Giant. It is made up of Helium and Methane mostly.

## **Chapter 4 - The Earth, Moon and Sky**

In this chapter, we will be discussing Earth, Moon and Sky. Earth, our home, is the third planet from the sun. It's the only planet known to have an atmosphere containing free oxygen, oceans of water on its surface and, of course, life. Earth is the fifth largest of the planets in the solar system. It has one moon, and currently, it is only the planet life is possible on. It has a friendly atmosphere, with Ozone Layer protecting us from UltraViolet Rays. It consists of 78 percent nitrogen, 21 percent oxygen and 1 percent other gases such as Helium. It is a Terrestrial and rocky planet. Most of the Earth is only covered with water. Now, the Earth has only one moon, known as 'Luna'. For the sake of simplicity, we call it the 'Moon' as it is the only moon on Earth.

The Moon has small spots on it known as the Creator. See the phases of the Moon [here](#).

## **Chapter 5 - Closing**

This book was a short one, but was fully knowledgeable. This is only for your first year, so, now,

I end my book.