



Science

Module D - Flying

Chapter One

“Invisible Ocean”



Chapter Breakdown! In this presentation I will -

- **Describe** the atmosphere that surrounds the Earth.
- **Explain** why we are not aware of the atmosphere pressing down on us.
- **Read the corresponding section in the book *before* you review with me in this presentation. At the end there will be homework!**



What is Air?

- Air is a part of the **atmosphere**, or the layer of gases that surround the Earth.
- A gas is a form of matter like a solid or a liquid, meaning it has mass and it takes up space.
- The atmosphere can be broken down into 4 layers –
 1. The **Troposphere**
 2. The **Stratosphere**
 3. The **Mesosphere**
 4. The **Thermosphere**



The Ozone Layer



- The Ozone Layer is located in the stratosphere.
- It is *extremely* important because it protects the Earth from harmful radiation from the Sun.
- We will come back to this, so make a note of it!



Why don't we feel the Atmosphere?

- Atmosphere has gravity, and therefore weighs a lot. The reason we don't feel that weight is because air pressure presses down on you from **ALL** directions – up, down, in, and out.
- The pressure is **equal** on all sides, including the inside. Air inside of you pushes out with the same pressure as the air around you.



Homework! Yay!

- Complete the checkpoint at the end of the chapter – questions 1, 2, and 3.
- Draw a picture of the layers of the atmosphere and send it to me on Class Dojo. (Label each layer please!)
- Check Class Dojo for your science experiment!!



Remember...

We got this!

Good luck! I miss you all so much!

Ms. Sidney Vandevender

