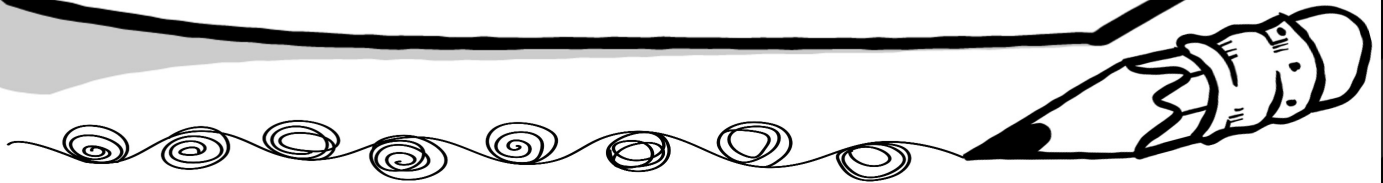


Thank you for downloading!

This layers of the atmosphere diagram was created with teachers in mind. Please use it for non-commercial use only. Feel free to read the fine print below and leave a comment on my web page if you like it!



By downloading this resource, you are agreeing that the contents are the property of [Amigo Science](#) and licensed to you only for classroom / personal use as a single user. I retain the copyright and reserve all rights to this product. **Please remember to leave feedback on my website.** Leaving feedback also allows me to grow as an author and designer and I welcome suggestions! **FOLLOW ME ON TPT.**

YOU MAY:

- Use free and purchased items for your own classroom students, or your own personal use.
- Reference this product in blog poses, at seminars, professional development, workshops, or other such venues, **ONLY** if both credit is given to myself as the author, and a link back to my TPT store is included in the presentation.
- Purchase licenses at a great discount for other teachers to use this resource.

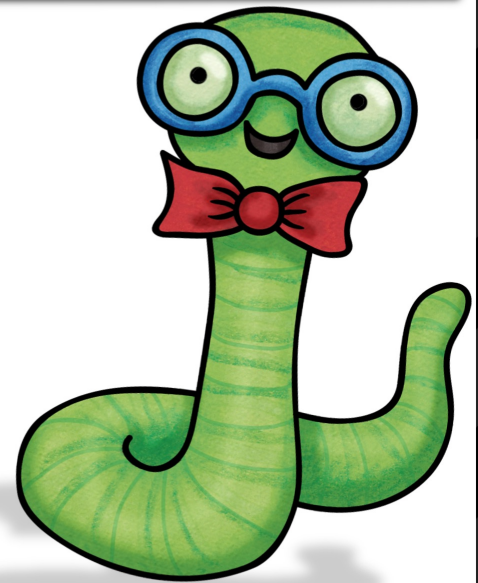
YOU MAY NOT:

- Claim this work as your own, alter the files in any way, or remove copyright/watermarks.
- Sell the files or combine them into another unit for sale/free.
- Post this document for sale/free elsewhere on the internet (this includes Google Doc links on blogs).
- Make copies of purchased items to share with others. This is strictly forbidden and is a violation of the TOU/law.

Thank you for abiding by universally accepted codes of professional ethics while using this product. If you encounter an issue with your file, notice an error, or are in any way experiencing a problem, please contact me and I will be more than happy to help sort it out. You can reach me at info@amigoscience.com.

WANT THIS LAYERS OF THE ATMOSPHERE BOARD GAME ...

FREE?



I'd love to share this *review game* of the layers of the atmosphere with you right now!

The game board can be made *as large as you wish*. Just laminate and use it year after year!

Click here to check out my **BLOG** on teaching the layers of the atmosphere!



EXOSPHERE



THERMOSPHERE



KÁRMÁN LINE

MESOSPHERE



OZONE LAYER

STRATOSPHERE



TROPOSPHERE



IONOSPHERE

This region grows and shrinks based on energy absorbed from the sun.

Atmosphere Notes

Troposphere

This is the layer of the atmosphere every living thing resides in. It is the densest layer of the atmosphere. Almost all weather occurs here. Most humans will spend their entire lives in the troposphere. Air temperature gets very cold as altitude increases until the top of the troposphere is reached.

Stratosphere

The layer just above the troposphere. This layer has extremely thin air. Humans would not be able to breathe in the stratosphere. The extremely important ozone layer is at the top of this layer. Because the ozone layer absorbs solar energy, temperatures rise as altitude increases in the stratosphere.

Mesosphere

On top of the stratosphere is the mesosphere. This is the coldest layer. There is not much to this area of the atmosphere except the molecules of the atmosphere are beginning to become thick enough to burn up meteors in this layer. Temperatures once again grow colder as altitude increases. In fact, this is the coldest layer of the atmosphere.

Thermosphere

This next layer has extremely high temperatures but there is no heat. This is because heat and temperature are different. Temperature is a measure of the energy of a particle in motion. Heat is created when those particles hit each other. The molecules in the thermosphere have a lot of energy because they are heated from the sun. However, they are so far apart they cannot touch to transfer that energy and create heat. The International Space Station and certain satellites are in this layer. The unofficial boundary between our atmosphere and space is at 100 km and is called the Karman Line.

Ionosphere

This area is a special sub-layer of the atmosphere, and not a distinct layer like the others. It overlaps into the mesosphere and thermosphere. The ionosphere is created through radiation from the sun and continually varies in thickness depending upon the amount of energy it absorbed. This solar absorption causes nitrogen and oxygen atoms in the atmosphere to become electrically charged, creating a glow. This is the aurora borealis or aurora Australis, which occurs in this layer.

Exosphere

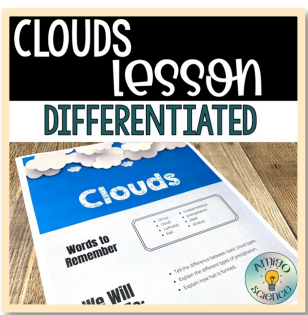
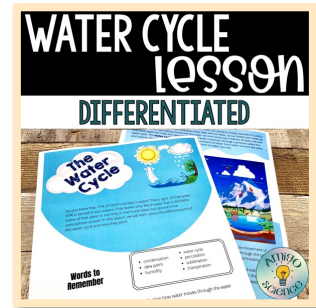
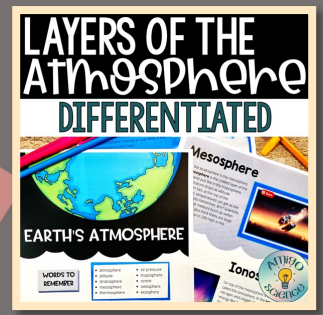
The last and extremely thin layer of the atmosphere. This layer gradually fades out over thousands of miles until it disappears. Objects like the Hubble Space Telescope and satellites are in this layer.



Weather Activities:



Teach the atmosphere with this activity!



Bundle & Save \$\$\$!

