

Name: Becca
62.5%

Pre-Test Score: 10 out of 16-

Post Test Score: 11 out of 13- 85%

Empower Learner Activity

Atmosphere Unit

Directions: For each of the following statements, copy and paste the following icons where they apply to you:



if you can do this by yourself



if you can do this with some help



if you can do this with a LoT of help

Before

After

I Can... describe the mixture of gases in Earth's atmosphere.



I Can... list the layers of the atmosphere.



I Can... describe how air pressure and temperature change as altitude increases.



I Can... describe how energy from the Sun influences the atmosphere.



I Can... describe describe the greenhouse effect.



I Can... define "weather."



I Can... compare and contrast relative and absolute humidity.



I Can... identify at least 5 cloud types.



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Before the unit begins, answer the following questions in the “Before” column. For true/false questions, if you disagree, you must explain why.

Question	Before	After
How does Earth’s atmosphere affect life on Earth?	Earth’s atmosphere affects life on earth by insulating it, keeping it warm enough to support life, and protecting us from space debris, as well as other things. It also can heat up too much and hurt the life on earth	Earth’s atmosphere insulates the earth and keeps it warm, and protects us from space debris, solar radiation, true
True or False: Air is empty space.	False, because air has lots of gasses	False, because air has gases in it

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True or False: Earth's atmosphere is important to living organisms.	True	True
True or False: All energy from the Sun reaches Earth's surface.	False, because the atmosphere can scatter some energy, absorb it, or distort it	False, some of it is absorbed and trapped by the clouds, some bounces back into space, and some of it Earth absorbs
True or False: Earth emits energy back into the atmosphere.	True	True
True or False: Uneven heating in different parts of the atmosphere creates air circulation patterns.	True	True
True or False: Warm air sinks and cold air rises.	False, because warm air rises and cold air sinks	False, because warm air rises because it's less dense and cold air sinks because it's denser
True or False: Weather is the long-term average of atmospheric patterns of an area.	False, because that's the definition of climate	False, because that's the definition of climate
True or False: All clouds are at the same altitude within the atmosphere.	False, because depending on the cloud, they may be in different altitudes within the atmosphere	False, because some clouds are high altitude, some are low altitude