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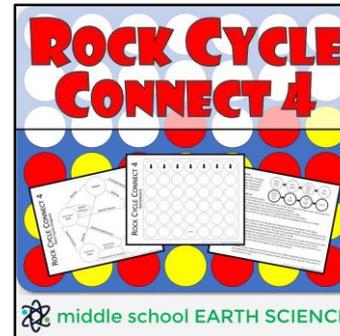
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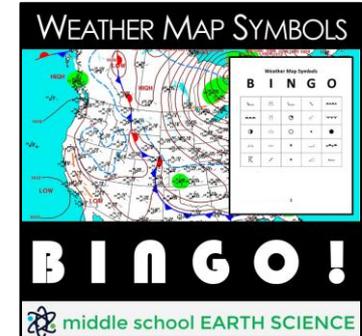
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EARTH'S ATMOSPHERE

(SCALE: 1 cm = 20 km)

Instructions:

1. Write all underlined words, phrases and numbers in your diagram. You're going to need to write really small.
2. Draw a horizontal line at 0.0 cm. Below the line write, Earth (Diameter of 12,742 km, ~23 pages down)
3. Draw a horizontal line at 0.6 cm. Between the 0.0 cm and 0.6 cm lines write Troposphere (0-12 km) Weather Happens Here!
4. Directly above the 0.6 cm line write Tropopause.
5. Draw a horizontal line at 2.5 cm. Between the 0.6 cm and 2.5 cm lines write Stratosphere (12-50 km) The ozone in this layer protects us from harmful radiation.
6. Directly above the 2.5 cm line write Stratopause.
7. Draw a horizontal line at 4.0 cm. Between the 2.5 cm and 4.0 cm lines write Mesosphere (50-80 km) Meteors burn up here. Traveling here makes you an astronaut!
8. Directly above the 4.0 cm line write Mesopause.
9. Draw a horizontal line at 25.0 cm. Between the 4.0 cm and 25.0 cm lines write Thermosphere (80-500 km) International Space Station orbits in this layer.
10. Directly above the 25.0 cm line write Thermopause.
11. Directly above the Thermopause write Exosphere (500 km-halfway to the moon ~339 pages up) Most satellites orbit in this layer.

If you have time:

1. Draw Mount Everest with its peak at 0.4 cm in the Troposphere.
2. Draw a weather balloon in the Stratosphere.
3. Draw meteors burning up in the Mesosphere.
4. Draw the International Space Station at 20.4 cm in the Thermosphere.
5. Draw a Global Positioning System (GPS) satellite in the Exosphere.
6. Lightly color each layer a different color.



Exosphere (500 km - halfway to the moon ~ 339 pages up)
 Most satellites orbit in this layer.



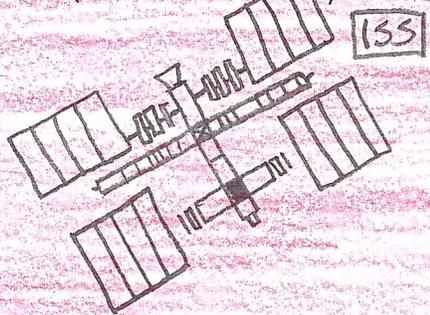
Thermopause

Name: _____

Class: _____ Score: _____

EARTH'S ATMOSPHERE

(SCALE: 1 cm = 20 km)



Thermosphere (80-500 km) International Space Station orbits in this layer.

Meteors



Mesopause

Mesosphere (50-80 km) Meteors burn up here. Traveling here makes you an astronaut.

Stratopause



Stratosphere (12-50 km) The ozone in this layer protects us from harmful radiation.

Weather Balloon

Tropopause

Troposphere (0-12 km) Weather Happens Here!

Earth

(Diameter of 12,742 km ~ 23 pages down)

Everest

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