

Composition and Structure of Earth's Atmosphere

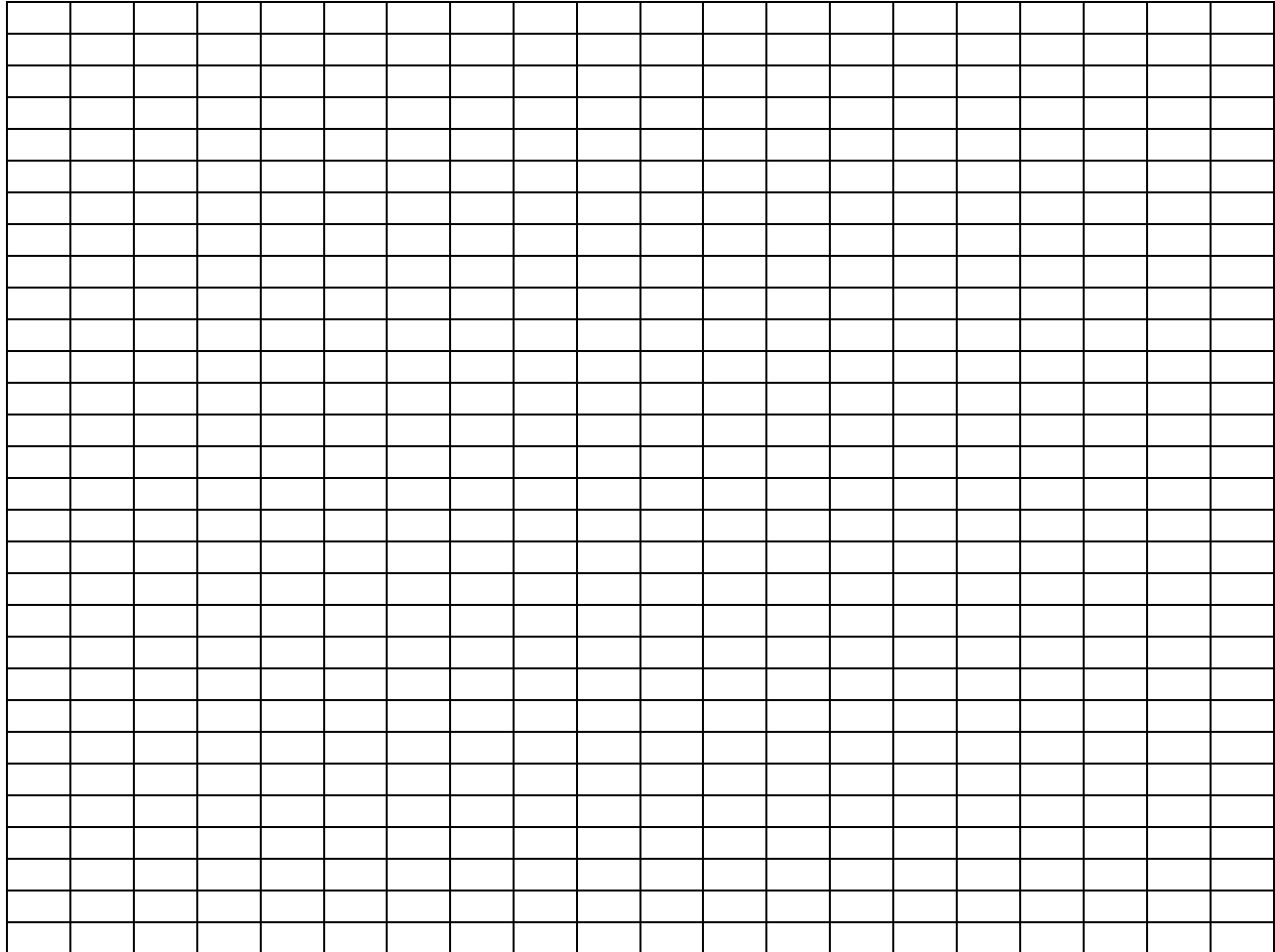
Earth Science

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Part 3: Structure of the Atmosphere

1. Make a graph of the following data table. Place Temperature (°Celsius) on the x-axis and Height above ground (kilometers) on the y-axis.

T	20	-50	-60	-57	-40	-20	-10	-15	-40	-70	-90	-	-90	-10	60	?
H	0	10	15	20	30	40	45	50	60	70	80	100	100	110	115	120



2. Now, analyze your graph. What happens to temperature as height increases? What happens to air pressure as height increases? What does air pressure have to do with temperature?
3. What criteria would you use to divide the atmosphere into vertical layers? Use these criteria to draw layers (in pencil) on your graph.
4. Now look at pages 552 to 553 of your textbook. Did your layers match the criteria that the book outlines? If so, label and draw the different layers on your graph. Highlight the major characteristics of each layer.