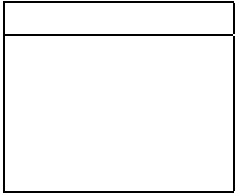


6Q3 - Quiz on the Basic Physics of Climate Science



Name: KEY

Period: _____

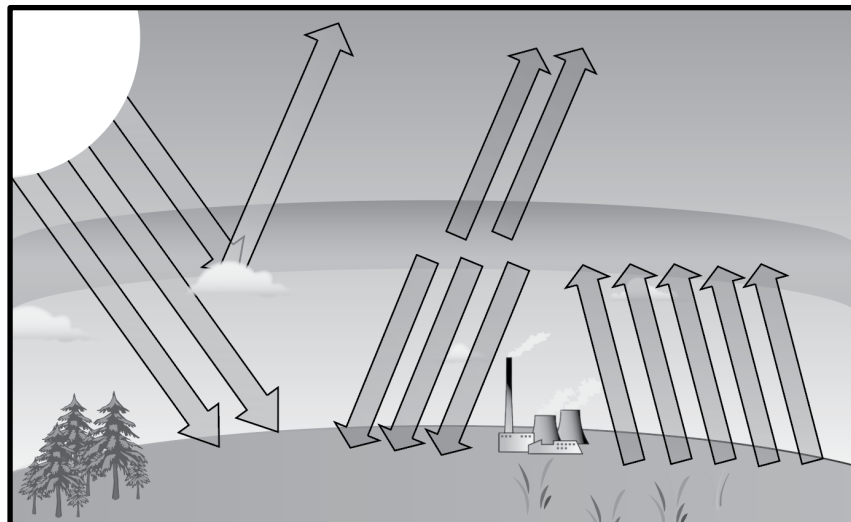
Date: _____

1. For each factor listed in the table, put a checkmark in the energy effect(s) it primary/initially has.

Factor	E _{Input}	E _{storage} e	E _{Output}
Atmospheric composition			x
Volcanic activity	x		
Circulation of the Oceans		x	
Deforestation	x		x
Earth's orbit and the orientation of its axis	x		
Circulation of the Atmosphere		x	
Glaciation	x		
Human activities	x		x
Sun's energy output	x		

2. For the scenario of Decreasing Global Temperatures: Select *two* factors from the list above that would lead to global decreasing temperatures and *modify* (by changing, adding, or subtracting arrows) and *annotate* the energy model below to demonstrate a causal chain resulting in decreasing global temperatures.

Check Slides for effect of each factor

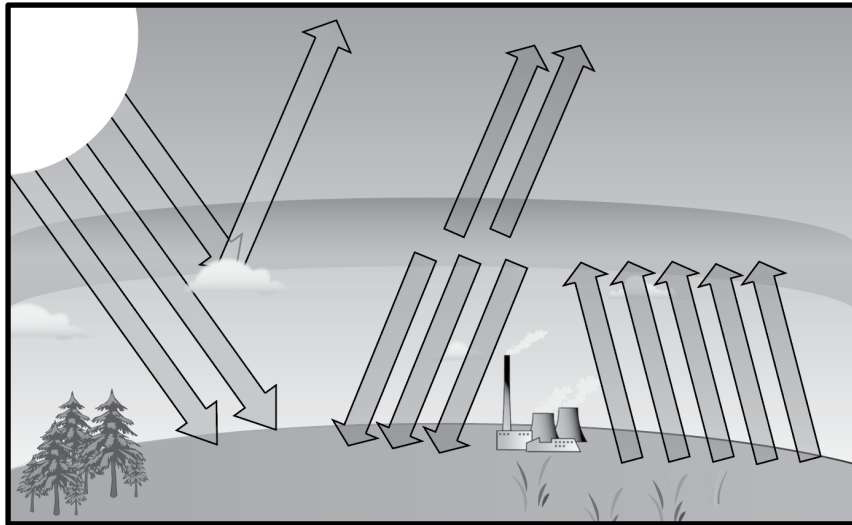


3. Explain with reference to the diagram above how the changes you made would decrease the global temperature of the Earth.

Check Slides and Packet for effect of each factor

4. For the scenario of Increasing Global Temperatures: Select *two* factors from the first page that would lead to global increasing temperatures and *modify* (by changing, adding, or subtracting arrows) and *annotate* the energy model below to demonstrate a causal chain resulting in increasing global temperatures.

Check Slides for effect of each factor



5. Explain with reference to the diagram above how the changes you made would increase the global temperature of the Earth.

Check Slides and Packet for effect of each factor