Energy in the Atmosphere

1. Where does most of the Sun's energy go? **Absorbed at the surface, reflected in to space, absorbed by the atmosphere**

2. How much of the Sun's energy is **absorbed**? 30% 51% 70% 16%

3. How much of the Sun's energy is **reflected**? 30% 51% 70% 16%

increase	**unequal**	**heat**	**surface**	**atmosphere**	**the atmosphere**
reflected	**absorbed**	**absorbed**	**absorbed**	**solar**	**solar**
space	**equal**	**emitted**	**infrared**	**oceans**	**the surface**
reflected	**ultraviolet**	**land**	**small**	**oceans**	**photosynthesis**

4. _____energy is mostly visible light and _____ radiation, with a small amount of _____ radiation.

5. The Earth's _____ absorbs solar energy. This energy heats the _____ and _____.

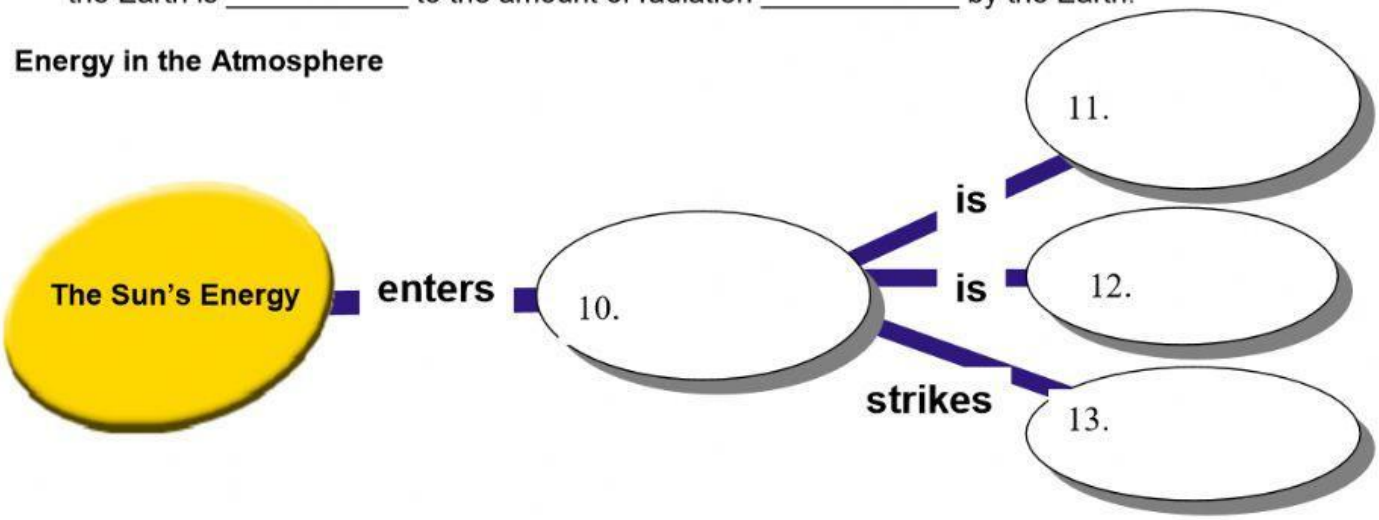
6. Some of the sun's energy reaches Earth's surface and is _____ back into _____.

7. Some of the energy, however, is _____ by the land and water and changed into _____.

8. If the Earth absorbs more _____ energy than it reflects back to space, we expect the Earth's temperature to _____.

9. The Earth's energy budget is balanced when the amount of solar radiation _____ by the Earth is _____ to the amount of radiation _____ by the Earth.

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14. The Earth receives only a very _____ portion of the sun's energy, yet this energy is responsible for powering the motion of the _____ the _____ currents and provides energy for _____ stored by plants. .

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