

Worksheet

1.	What percentage of the incoming solar energy is reflected by the atmosphere and the clouds?
2.	What percentage of the incoming solar energy is absorbed by the atmosphere and the clouds?
3.	What percentage of the incoming solar energy is absorbed by Earth's surface (land and oceans)?
4	What percentage of the incoming solar energy ends up being reflected/radiated back into space?
:	reflected 35% radiated 70% total 100%
5	What would happen if less solar energy was reflected/radiated back into space? The Earth's average temperature would increase
	the Earth's average temperature would decrease
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,	What has a higher albedo, ice or open ocean?
3.	If an increase of one degree in global temperatures causes the Arctic Ocean to remain ice free for two additional weeks each year, how will it affect the ocean's albedo? Why?
	less ice will reflect less solar energy resulting in
•	a lower albedo (which will, in turn, coult in less ice and so on.)
)	If the ocean's albedo decreases, how will this affect ocean temperatures and ice formation in the winter? Explain.
	Diean temperatures will rise as the occan absorbs
	more soler radiation. This will result in less ice
	formation in winter.

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