Notes: The Greenhouse Effect	Name	Block
I. The Sun's energy reaches Earth through		
Insolation is the reaches the Earth. It is most intense during the sur	(energy fron mmer, at noon, near the	n the sun) that
The Earth's surface only absorbs% of income and surface and		
II. Energy is transferred from the Earth's surface bevaporation, and water condensation.	y radiation, conduction, c	onvection, radiation
Ultimately, the Sun's heat and Earth's energy tran	sfer is a major cause of	
III. The Greenhouse Effect is the process by which	ch:	
-In other words, greenhouse gases trap	and keep	it close to Earth.
- 3 Main Greenhouse Gases :	, and	
The Greenhouse Effe	Explain the Green your own words.	enhouse effect in
 V. <u>Is the Greenhouse Effect Good or Bad?</u> 1. It is necessary for life (good) because: 		
Remember how Mercury's temperature	re changes nearly 400° from	day to night?
2. It is bad when:		

[•] Remember how Venus has such a strong greenhouse effect that makes it too hot for liquid water and life to survive? Venus' greenhouse gasses are so thick we can barely see the surface.

VI. Global Warming is an increase in average	(getting hotter!)		
Global warming is caused by an	_ in Greenhouse gases in the atmosphere.		
VII. Greenhouse gases increase in the atmosph	ere when:		
1. is added to the atmo	osphere when people burn coal, oil, and		
natural gas () for	() for transportation, factories, and electricity.		
2 or the cle	or the clearing of forests , also increases the amount of		
CARBON DIOXIDE (CO ₂) in the air because in	n photosynthesis: <i>plants take in carbon dioxide</i>		
and remove it from the atmosphere, they m	ake more oxygen.		
3,, and	(breathing) also add CO ₂ .		
4 is produced	when garbage is buried in landfills, from		
animal waste (poop), and from other natural s	sources.		
5. As temperatures increase, evaporation incr	reases which adds .		
VIII. Is Global Warming Happening? Answer these			
How much have global temperatures change			
How much are global temperatures expected			
3. What percent of the polar ice caps have melt			
4. How much has sea level gone up since 1990			
 get their strength temperatures increase, should we expect more 	th from ocean water, so as ore intense storms?		
6. Name 2 man-made greenhouse gas sources:			
7. Where is Earth the warmest?			
Greenhouse gas producers:	Insolation		
Creeniiouse gus producers.	Modulon		
escaping radiation absorbed			
reflected edge of atmosphere	mr.		
Eu mil	30% reflected by		
absorbed by atmosphere and	Earth surface and atmosphere 51% absorbed by absorbed by atmosphere		
Earth radiation absorbed by			
deforestation greenhouse gases	Short S		
CFCs oil and greenhous			
engines gases and fossil fuels			