Handout 1 (pink) Climate Name	Period
Climate Change Standard 3 Objective 3 Indicators a, b, c, d, and e Chapter 25: Section 3: Directed Reading	Pages 641-646
Section: Climate Change (page 641) 1. What two questions do scientists work to answer?	
2. Define <i>climatologist</i> .	
STUDYING CLIMATE CHANGE (page 641) 3. What practice helps climatologists make predictions al	oout future climates?
Use the terms from the list below to complete the ser used only once.	ntences that follow. Each term may be
•	eral circulation models (GCMs)
4. When scientists find high ¹⁸ O levels in was cool in the past. 5. Thin indicate cool wea	
 5. Thin indicate cool weather. 6. High levels of CO₂ found in in ice ages follow decreases in CO₂. 7. By studying, scientists 	
changing climates. 8. Computer-generated climate models that simulate charemain unchanged are called	inges in one variable when other variables
9. What are three climate conditions that computer mode	ls can be used to predict?
POTENTIAL CAUSES OF CLIMATE CHANGE (page 6 10. What are three factors that might cause climate chan	•
11. The movement of continents over millions of years ca affect climate changes.	aused by may
12. According to the Milankovitch theory, what three factor	ors can lead to climate changes?
The shape of Earth's orbit changes from distance from the sun and therefore Earth's temperature. Decreasing decrease seasons.	erature and climate.
15. The wobble of Earth on its axis changes the direction	of Earth's tilt and can reverse the

16. What human activities are responsible for releasing carbon dioxide, CO ₂ , into the atmosphere?.
17. What can increases in CO ₂ levels lead to?
POTENTIAL IMPACTS OF CLIMATE CHANGE (page 644) 18. Climate change can affect what three life-forms?
19. What are three potential climate changes that could make survival of life on Earth more difficult for both humans and other species?
20. Define global warming.
21. How could global warming affect plants and animals?
22. How could the melting of polar ice caps affect the shoreline and its inhabitants?
WHAT HUMANS CAN DO (page 646) 23. What actions have countries taken to reduce the potential effects of global warming?
24. List three actions individuals can take to reduce CO ₂ concentrations in the atmosphere that are caused by pollution.
25. Name two ways that people can change their transportation habits to reduce the release of ${\rm CO_2}$ into the atmosphere.
26. When driving, what are two things that can be done to make sure the car is burning fuel more efficiently?
27. How can hybrid cars reduce the amount of carbon dioxide in the atmosphere?