Name: Period:

Endangered Elements

1.	These elements aren't going extinct because atoms generally last					
2.	If elements are essentially "indestructible", why do scientists consider these ones "endangered"?					
3.	List the SYMBOLS of the ten most endangered elements.					
4.	How many elements are in a typical smart-phone?					
5.	What part of a smart-phone depends on indium? What other metal is involved in this?					
6.	The U.S.G.S. predicts that we will run out of "extractable" indium in how long?					
7.	"Extractable" indium is in the earth's crust. Its abundance is how many parts per million?					
8.	What percent of indium is currently recycled?					
9.	Manufacturers ask that old cell phones be "recycled" rather than thrown away. If matter (including indium) cannot be created or destroyed, throwing an old phone away does not "use up" its indium. Why is sending a phone to the landfill a bad choice, if the indium isn't destroyed by throwing it away?					
10.	. How do you think throwing away old cell phones this year will affect the price of a new cell phone five years from now? Why?					
11.	1. Once helium enters Earth's atmosphere, it is basically:					
12.	How common is helium in the universe?					
13.	How common is helium on Earth?					
14.	Where is the world's largest helium reserve?					
15.	How many years' worth of helium do we have left?					
16.	In addition to balloons, helium is also used for and					
17.	Like indium, we should also recycle helium. Why aren't we recycling helium yet?					
18.	No would exist without phosphorus.					
19.	The most important product containing phosphorus is					

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20. Not enough phosphorus means not enough which means not enough						
21. We cannot ke	ep for phos	sphorus in the same spots, b	out we may be able to	it.		
22. Where does "used" phosphorus end up?						
23. Why is hydrog	gen a bad idea for filling b	irthday balloons?				
24. What element could replace helium in an MRI?						
25. What element could replace helium in welding?						
		Fluoridation				
26. The main con	stituent of tooth enamel i	is called:				
•	vert the main constituent more resistant to	of tooth enamel into: conditions.		(because it is		
28. How many countries artificially fluoridate water?						
29. How many countries have natural fluoridation in their water?						
30. What two food items other than water are fluoridated in some countries?						
31. Fluoridation and fluoridated toothpastes have contributed to declining worldwide.						
32. Some people	fear fluoridation because	they think it causes cancer.	Does it?			
33. Does fluorida	tion cause decreased IQ o	or Down Syndrome?				
34. Fluoride CAN cause fluorosis—Skeletal Fluorosis or Mild Fluorosis. a. Mild Fluorosis could result from drinking fluoridated water. Would this cause any serious health problems? 						
		when excess fluoride (10-20 in have to ingest excess fluor				
ii		ride-per-day ingested by a p MES the recommended dail		ed water each day		
	2. Brushes his/he	r teeth FIVE times per day.				
iii	. Does your answer to ei mg/day)	ither of the previous questic	on fall in the fluoride dar	ger-zone? (10-20		

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