
1. The irritation some people feel about their difficulty understanding the Periodic Table is like the irritation __________________ must feel when they look at ___________ dot-diagrams.

2. What does the Periodic Table’s shape resemble? Give four details.

3. What percentage of the “bricks” are metals?

4. Which elements are liquids at room temperature?

5. According to Sam Kean an element’s geography on the Periodic Table is its ________________.

6. Which Greek philosophers invented the idea of atoms?

7. What happened when a Dutch-German scientist cooled mercury to blow -452°F?

8. When cooled to -456 oF, what happens to helium?

9. Virtually every element seeks out other elements to ______________________.

10. Elements always appear as ______________ in nature.

11. Robert Bunsen’s interest in the toxic chemical arsenic lead to his development of what is still ____________________________.

12. Bunsen also invented the spectroscope which allows us to see that each element on the Periodic Table does what when you heat it?

13. In order to heat the elements hot enough he added an __________________________ the oxygen flow to a primitive gas burner. This produced a tidy, hissing, ________________ we see on good gas stoves today.

14. Who is recognized as the man who created the first periodic table?

15. He created the first periodic table in ____________.

16. ____________________ compared the ________ units or rows of his table to the notes on a ____________________.

17. What did Mendeleev understand better than any other chemist of his time?

18. Because he knew so much about elements he was able to incorporate all __________________ into his columns & rows.

19. Mendeleev even predicted 3 unknown elements that would fit into his table. He named two of these elements__________________, and ____________________.
20. Goethe made a lasting contribution to science by choose __________________________as chair in chemistry at the University of Jena.

21. One of Dobereiner’s greatest contributions to science was his discovery of what facts about strontium?

22. He began to look for other sets of 3 elements which he called ______________.

23. What 2 things should we be able to place in front of an alien and they should be able to grasp?

24. Glenn Seaborg and his colleagues changed the periodic table to give it more space for ________________.

25. Seaborg and his colleagues removed all the heavy elements known at the time, called ____________________ and move them to ____________________________________.

26. List 3 examples of “cleaver” ways to shape the periodic table.

27. Search the Internet and find one picture of a periodic table of elements that has the elements listed in it but is not shaped like the traditional “castle” shape shown in the back of The Disappearing Spoon. Print a copy of that table and tape or paste it to this page.