

NAME: _____ DATE: _____ PERIOD: _____

Science Video – NOVA: Season 39 Episode 6 – Host: David Pogue
Hunting the Elements – Part 1 [from minute 1 to 57] – Form 2

1. What is the chemical symbol of gold?
2. To what temperature is heat up in the furnace the powdery sample containing gold?
3. After leaving the furnace, what was the weight of the tiny gold sample found in the cup?
4. How many pounds of gold is found in the rocks transported in one truck?
5. Besides gold, name 5 other metals that were called noble metals in the video.
6. How much is worth each bar of gold shown?
7. For how many years people have been extracting copper?
8. What metal is the best conductor of electricity?
9. Mixing copper and tin makes _____.
10. Why bells are not made of aluminum?
11. What happens to the alloy when tin is added to copper?
12. Of every 100 bells made of bronze, how many are defective and are recycled?
13. What tool was used to clean the dark substance covering the bronze bell?
14. If we are in orbit at an altitude of 2,000 miles, and if we zoom in 100 million times, we are able to see a _____ on the surface of the Earth.
15. What does three protons make?

16. What are metals?
17. Who created the first periodic table?
18. How many times does oxygen have more mass than hydrogen?
19. In what substance the chemical elements in column one explode?
20. In what year Mendeleev died?
21. What noble gases do when they are excited with electricity?
22. What is the maximum number of electrons in the second shell of an atom?
23. What family of elements are desperate to grab one electron and have a full electron shell?
24. Write the symbol and number of protons in an atom of chlorine.
25. Name three alkali metals.
26. What happen when a piece of sodium is placed in water?
27. What is the meaning of the term IED?
28. In what year a 4,000 pound ANFO bomb was detonated in Oklahoma?
29. What is an ion chromatograph machine?

Video link: <https://video.vermontpbs.org/video/nova-hunting-the-elements>

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