

Name \_\_\_\_\_

Date \_\_\_\_\_

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**VIDEO GUIDE: NOVA – “Hunting the Elements”**

PERIODIC TABLE OF THE ELEMENTS

- 1) How many different elements are there? \_\_\_\_\_
- 2) What is the symbol for gold? \_\_\_\_\_
- 3) What is gold's atomic number? \_\_\_\_\_
- 4) What are some unique properties of gold? \_\_\_\_\_
- 5) What process is used to separate gold atoms from crushed rock? \_\_\_\_\_
- 6) How much gold is harvested per ton of earth from the underground mine? \_\_\_\_\_



7) Gold does not share its electrons easily. Therefore, it is not very chemically reactive. What are two other metals that, like gold, don't react with other elements? \_\_\_\_\_

8) What is the worth (\$\$) of one 60-pound bar of gold? \_\_\_\_\_

9) Two rows above gold is the metal: \_\_\_\_\_; its symbol is: \_\_\_\_\_

10) In what objects / industries is copper used? \_\_\_\_\_

11) What are some unique properties of copper? \_\_\_\_\_

12) What is the symbol for tin? \_\_\_\_\_ What is its atomic number? \_\_\_\_\_

13) When copper and tin are mixed together, the alloy \_\_\_\_\_ is formed.

14) Why isn't copper alone used to make bells? \_\_\_\_\_



15) It is possible that the crack in the famous Liberty Bell was caused by too much \_\_\_\_\_

16) Metals form crystals, which means that they have an \_\_\_\_\_ of atoms.

17) Atoms with 1 proton are the element: \_\_\_\_\_; atoms with 2 protons are \_\_\_\_\_.

18) The number of protons in an atom is known as that element's \_\_\_\_\_.

19) The chemical symbol of each element is based on the element's name in which language? \_\_\_\_\_

20) More than 70% of the elements on the periodic table are \_\_\_\_\_.

21) Why are the noble gases called "noble"? \_\_\_\_\_

22) Which subatomic particles determine an element's reactivity? (circle correct answer)

**PROTONS****NEUTRONS****ELECTRONS**

23) How many electrons are in the first shell of electrons? \_\_\_\_\_ The second? \_\_\_\_\_

24) How many electrons do the noble gases have in their outermost shell? \_\_\_\_\_

25) How many electrons does chlorine have in its outermost shell? \_\_\_\_\_

26) What will an atom of chlorine do to complete its outer shell? \_\_\_\_\_

27) The alkali metals, such as sodium, have \_\_\_\_\_ electron in their outer shell.

28) What do the alkali metals do with that one electron? \_\_\_\_\_



# Hunting The Elements Worksheet Answers

**Annelies Wilder-Smith**



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