

Periodic Table Worksheet

Watch the video and answer the following questions.

PAY ATTENTION TO THE USE OF PREPOSITIONS LIKE: upon, with, on, in, of, from, to, across etc.

1. Elements like gold, silver, and _____ were easily spotted by ancient cultures, and were used for multiple purposes like _____ and tools.
2. The corner pieces are _____ of a puzzle, are generally the easiest to find and place because they stand out with their _____ edges, and clearly don't _____ with other puzzle pieces. Like puzzle pieces, elements can be choosy on who they interact with. Some like to react with other elements, while others do not. The elements that do not interact with other elements are easy to _____, while the ones who like to interact with others are difficult to find. Gold, silver, and copper are some of the choosier elements so we can find them easier.
3. Like many other alchemists of his time, Brand was trying to _____ gold _____ the human body. Brand hit _____ what he thought was the most obvious answer _____ his problem: _____. Urine is gold in coloration and could _____ have gold in it. So, Brand collected as much urine as he possibly could, much of it being his own, then he decided to boil it down _____ obtaining gold.
4. So Brand boiled his, well, urine, down until he collected a _____ and heated the paste to a very high temperature. Eventually smoke _____ and the material burned brightly and violently. Brand had unknowingly _____ phosphorous _____ his urine.
5. Instead, ancient Greek principles of objects being _____ earth, water, air, and fire were _____.
6. Who is now known as the father of chemistry? _____.
7. Who defined what an element was? _____.
8. What is an element?
9. German chemist Wolfgang Döbereiner later _____ elements to see how they reacted with one another. What he found was that certain elements shared similar _____ and _____. For example, when pure lithium, sodium, and potassium _____ water, they will react violently and _____ the surface of the water with sparks. The scientists then realised that these similarities are no _____: elements belong to families that share similar properties.
10. Dmitri Mendeleev created cards of each known element and tried to order them based on a _____ and their known _____.

ANSWER SHEET

1. Copper, jewellery
2. edges, smooth, interlock, pin-point.
3. extract, from, upon, to, perhaps, in hopes of, urine
4. paste, appeared, isolated, from
5. composed of, predominant
6. Antoine Lavoisier
7. Antoine Lavoisier
8. an element as a substance that cannot be broken down by existing chemical means.
9. combined, properties, reactions, are exposed to, skid across, coincidence
10. automatic weight, properties