

Meet the Elements

Iron is a metal, you see it every day
Oxygen, eventually, will make it rust away
Carbon in its ordinary form is coal
Crush it together, and diamonds are born

Come on come on and meet the elements
May I introduce you to our friends, the elements?
Like a box of paints that are mixed to make every shade
They either combine to make a chemical compound or stand alone as they are

Neon's a gas that lights up the sign for a pizza place
The coins that you pay with are copper, nickel, and zinc
Silicon and oxygen make concrete bricks and glass
Now add some gold and silver for some pizza place class

Come on come on and meet the elements
I think you should check out the ones they call the elements
Like a box of paints that are mixed to make every shade
They either combine to make a chemical compound or stand alone as they are

Team up with other elements making compounds when they combine
Or make up a simple element formed out of atoms of the one kind

Balloons are full of helium, and so is every star
Stars are mostly hydrogen, which may someday fuel your car

Hey, who let in all these elephants?
Did you know that elephants are made of elements?
Elephants are mostly made of four elements
And every living thing is mostly made of four elements
Plants, bugs, birds, fish, bacteria and men
Are mostly carbon, hydrogen, nitrogen and oxygen

Come on come on and meet the elements
You and I are complicated, but we're made of elements
Like a box of paints that are mixed to make every shade
They either combine to make a chemical compound or stand alone as they are

Team up with other elements making compounds when they combine
Or make up a simple element formed out of atoms of the one kind

Come on come on and meet the elements
Check out the ones they call the elements
Like a box of paints that are mixed to make every shade
They either combine to make a chemical compound or stand alone as they are

Questions from "Meet the Elements" Song

1. Write the reaction for the oxidation of iron metal to rust.
2. What Latin word is responsible for the symbol for iron, Fe?
3. What chemical reaction takes place when a match made with phosphorus is ignited?
4. Explain the difference in the carbon bonding in diamond and in coal.
5. How does a Neon light work?
6. What is the percentage and type of metal in a penny, a nickel, a dime and a quarter?
7. What is the chemical composition for concrete and glass?
8. What is the chemical name for sugar: $C_{12}H_{22}O_{12}$?
9. How is aluminum used in a battery?
10. What is the reaction for the combustion of propane?
11. What is the fusion reaction that converts hydrogen to helium in stars?
12. What is the reaction for the combustion of hydrogen?
13. What is the % by mass of hydrogen in the universe?
14. What are the actual percentages by mass of carbon, hydrogen, nitrogen and oxygen in man?
15. What is another name for calcium sulfate (used for chalk on a chalkboard)?