

# **GRADE 8 RATIONALIZED INTEGRATED SCIENCE**

## **LESSON NOTES COMPLETE**

### **STRAND 1- MIXTURES, ELEMENTS AND COMPOUNDS.**

#### **ELEMENTS AND COMPOUNDS**

##### **Meaning of Atoms, Elements, molecules and Compounds.**

- Matter is anything that occupies space and has mass.
- Matter is composed of pure substances and mixtures.
- The pure substances are can be element and compounds while the mixtures can either be uniform or non-uniform.
- An **element** is a substance that cannot be decomposed into simpler substances by chemical or physical means.
- An element is a pure substance which cannot be made simpler using chemical means.
- Elements are the building blocks of matter. Everything around is made up of an element or elements.
- An element is made of atoms.
- Atoms of the same element are identical.
- A **compound** is pure substance that consists of atoms of two or more elements that are chemically joined together.
- Compounds are formed when atoms of different elements react.
- Compounds can be broken down into elements through chemical reactions.
- **Sodium** and **chlorine** are elements that combine chemically to form **sodium chloride** which is a compound.

##### **Relating common elements to their symbols.**

- Pure substances either elements or compounds has a unique name and symbol.
- A symbol is a sort -hand notation for the chemical name of an element.
- Chemical symbols are used instead of names by scientists because they are much easier, convenient and universally recognized.
- Compounds are represented by a chemical formula.
- A chemical symbol is usually derived from first letter of the English name of the element.  
▲ It is also derived from Latin name of the element.

*For example,*

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**Rachel Sandford**



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web however ladder logic ld is the most used and fundamental plc language therefore the basic steps in this guide will help you to use ld with openplc the structure behind ld is based on the electrical ladder diagrams that were used with relay logic in the past these diagrams documented how connections between devices were made on relay panels

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web may 17 2015 the cylinder is a double acting pneumatic cylinder type start start button a and b cylinder moving forward a and b cylinder moving backward for this sequential start a a b b basically when start button is pressed cylinder a will move forward until max then move backward until min

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web aug 20 2018 the actual ladder was the drawing of the control logic an illustration of how the relays were wired together even today a lot of the conventions that led to ladders are still in use and i will use a recent example drawing to illustrate this below is a simplified drawing of a control circuit and one of our ladder logic diagram

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web ladder logic has evolved into a programming language that represents a program by a graphical diagram based on the circuit diagrams of relay logic hardware ladder logic is used to develop software for programmable logic controllers plcs used in industrial control applications

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web nov 3 2019 ladder diagram better known as ladder logic is a programming language used to program plcs programmable logic controllers this article will briefly describe what ladder logic is and go over some examples of how it functions

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web feb 16 2021 in simple terms all the field input and output devices are wired to the plc and the ladder logic program decides what outputs to trigger depending on the status of the input signals in basic terms plcs execute ladder logic by first reading all the input states and storing them into memory

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web sep 4 2017 ladder logic also known as ladder diagram or ld is a programming language used to program a plc programmable logic controller it is a graphical plc programming language which expresses logic operations with symbolic notation ladder logic is made out of rungs of logic forming what looks like a ladder hence the name

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web mar 11 2020 during the program scan cycle the plc reads the inputs solves the ladder logic and energizes or de energizes outputs because inputs can change at any time this process repeats over and over again while the plc is in run mode the diagram below shows a model of the plc program scan cycle

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web feb 9 2015 ladder logic was designed to have the same look and feel as electrical ladder diagrams but with ladder logic the physical contacts and coils are replaced with memory bits let s take a look for this program the relay logic s ladder diagram is duplicated with ladder logic no more hard wired logic but memory locations instead

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