


CBC Elements of Construct

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1st THE LEARNER APPRECIATES CONTRIBUTION OF CHEMISTRY TO OUR ECONOMY.

Assesable areas:

- Manufacture of oxygen gas
- Manufacture of Chlorine gas
- Extraction of metals (Na, Al, Cu, Zn, Fe)
- Manufacture of fertilizer
- Manufacture of cement
- Manufacture of sodium hydroxide
- Manufacture of sulphuric acid
- Manufacture of ethanol
- Manufacture of biogas
- Manufacture of detergents

(1) When describing processes you should include;

Vessel - **V**

Chemical process - **CP**

cd — Conversion to desired product

Ch — Coherence - **Ch**

Pr — Purification

(2) What do you ^{base on to} assess or basis of assessment.

- Raw materials **Rm** (i) process of production **PP** (ii) side effect **S.E.M** of the process of production and mitigation
- Social benefits **S.B**

2nd THE LEARNER APPRECIATES THE APPLICATION OF CHEMISTRY IN DAILY LIFE

Assesable areas

(a) FOOD ADDITIVES such as;

Flour enhancers, antioxidants, acidity regulators, bulking agents, colours **(yes)**, emulsifiers, flavour enhancers, lathering agents, Gelling agents, glazing agents, preservatives, raising agents, sweeteners, thickeners, whitening agents, Humectants

b) Medicines such as Analgesics, antipyretics, antimalarial drugs, antiseptic, Mood stabilizer such as Lithium, anticonvulsants and antipsychotics, Hormone replacements, oral oral contraceptives, tranquilizers, statins, stimulants; antibiotics, herbal medicine

c) Nuclear processes e.g.
Nuclear fission
Nuclear fusion
Half life and nuclear decay or radioactive decay

d) Detergents that is,
Soapless and soapy detergents.
Basis

Basis of assesment is;

1. Category / type of product
2. Functions of the products
3. Dangers and side effects of product and mitigation
4. Evaluation of the product / process.

3rd THE LEARNER APPRECIATES DIVERSITY AND INTERACTIONS OF SUBSTANCES AND THEIR IMPORTANCE
Assesable areas:

- (a) Elements, compounds and mixtures
- (b) The periodic table
- (c) Trends in periodic table
- (d) Structure and bonds
- (e) Mole concept
- (f) Materials classified into natural and synthetic group
- (g) Polymers and plastics
- (h) Reactivity series.

Basis of assesment is;

1. Category of element, compound or substance with a reason
2. Properties or prediction of properties of compound, substance or material

3. Uses of element, compound, substance or material
4. Pollution/impact of element, compound, substance or material to the environment and mitigation

4th THE LEARNER APPRECIATES THE EXISTENCE OF NATURAL RESOURCES IN THE ENVIRONMENT AND THEIR IMPORTANCE IN DAILY LIFE

Assesable areas

- (a) air
- (b) Water
- (c) fossil fuels — [igneous and ~~metamorphic~~ metamorphic)
- (d) Rocks and minerals
- (e) Carbon based fuels

Basis of assesment is;

1. Identify category of natural resource, reason and example
2. Composition of natural resource
- (3) Impact of the natural resource on the environment, how it occurs and mitigation
- (4) Benefits of natural resource.

You can develop one item from the above elements of construct, May Allah bless you.
Kiyimba series.