

Area: Chemistry

Ed.Level: 3rd level Secondary

Unit: Chemical changes and their impact

- Definition of chemical reaction, reactive and product
- Exothermic and endothermic reactions
- States change of matter
- Measure mass and volume
- Material laboratory
- Laboratory security rules
- Units
- Chemical reaction adjust
- Chemical formulation

Content

Cognition

Student learning outcomes

Culture

Communication

Language for the topic

Language for interaction

Vocabulary

Structures

- Specific vocabulary of the topic: matter, mass, volume, reactive, product, chemical, reaction, balance, heat, flask, thermometer, pollution, etc.
- Chemical formulation

- Can be transformed the matter?
- What a chemical reaction is...?
- Description of chemical reactions
 - It's...grams, kilograms, millilitres, cubic centimetres
- It is used to...
- Comparatives: denser, heavier
- Superlatives: densest, heaviest

- How do you say/write this in English?
- It has happened a...
- We can see/observe...
- Can I use the...?
- Can I go to...?
- It's my turn. Your turn
- Can you help us, please?
- I agree, I don't agree
- I don't know
- I don't understand

- Co-operative work in group (2-3 pupils)
- Social interest of chemical reactions (medicaments, environmental impact, alimentary industry, technical clothes...)
- Chemical reactions in our daily life (oxidation, combustion, decomposition...)
- Identifying the main industries of each country
- Learning different traditional names of some substances in each country
- Visit a local factory to identify components

- Concept map of the unit
- LOT: identify, label, describe
- HOT: apply, analyse, evaluate
- Hypothesize
- Apply laboratory rules
- Participate in group work
- Ask for explanations
- Reflecting on the learning process