



3055 BA SANGAM COLLEGE

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WORKSHEET 21

School: Ba Sangam College

Name: _____

Subject: Basic Science

Year/Level: 9

Strand 2	Matter
Sub Strand 2.1	Materials
Content Learning Outcome	Investigate how the properties and interactions of materials influence their use.

Lesson Notes

Natural rubber

- is a polymer
- is capable of returning to its original shape after a large extension
- Vulcanization-process of adding sulphur to rubber
- Sulphur is added to rubber to make it more stronger
- Rubber can be used to make water proof sheets elastic, erases, shoes, stoppers, tube, and tyre and insulators

Some properties of rubber that make it useful

- Waterproof
- Durable
- Elastic
- Unreactive
- Non-conductor of electricity

Plastic and the environment

- Plastics are made from compound derived from petroleum
- When plastics are used and thrown away, they remain as litter in the surrounding
- One solution to plastics pollution is recycling
- There are four different kinds of plastics and should be sorted out before recycling
- The best solution involves recycling , reusing, reducing the use of plastics
- Paper bags can be used instead of plastics

Petroleum products and coal

What is fuel?

- Source of energy
- Needed to operate machinery
- Give out carbon compounds when they burn and cause air pollution
- The cleanest fuel is nuclear fuels
- Earliest form of fuel were wood ,peat and coal
- Fuels can be of two types
 - a) fossil
 - Are non-replaceable
 - Takes millions of year to form
 - Examples : coal, crude, oil etc
 - b) Non-fossil
 - Replaceable
 - Examples : wind or water generated energy, nuclear energy and solar power

Coal

- Formed from remains of tropical rainforest millions of year ago
- It is believed that the climate changed and the trees died
- Mud, sand , and loose rocks must have buried these after some time

Oil

- Oil is formed from the remains of marine organism
- The remains, while rotting at the bottom of the sea ,get covered with further deposits and with sediments
- The sediments eventually harden and forms rocks
- The oil can only be pumped out if it has been concentrated and caught in a trap.
- The oil layer collects between water and gas.

Exercise

1. List 3 uses of rubber in our everyday lives.

(2 marks)

2. What are the main differences between the formation of oil and coal?

(2 marks)

2. What is the main point of similarity in the formation of oil and coal?

(1 mark)

3. Suggest why oil collects between water and gas layer

(1 mark)

4. What are fossil fuels?

(1 mark)

