RESEARCH ABOUT STEMS , ENERGY RESOURCES AND SOUND.

By. Tr. MADITRWOTH BILLY AARON.

+256788024520

+256742321699

Energy resources

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↘ An energy resource is resource used by man to produce useful energy.

↘ An energy resource is resource used to provides man with useful energy.

Examples of useful energy produced by energy resources

↘ Heat energy

↘ Light energy

↘ Sound energy

↘ Mechanical energy

↘ Electrical energy

↘ Thermal energy

Sources of energy resources

↘ Sun

↘ Water

↘ Plants

↘ Plant residues

↘ Animal wastes

↘ Water (fast flowing /stable water)

*__**Examples of energy resources***__

↘ Coal

↘ Uranium

↘ Peat

↘ Petrol

↘ Paraffin

↘ Diesel

↘ Jet fuel

↘ Plutonium

↘ Natural gas

↘ LPG(liquefied Petroleum gas)

↘ Firewood

↘ Charcoal

↘ Briquettes

↘ Sawdust

↘ Bioethanol

↘ Biodiesel

↘ Bio Char

↘ Biogas

↘ Tidal energy

↘ Animal energy

↘ Wind energy

↘ Solar energy

↘ Hydroelectricity

↘ Geothermal electricity

↘ Wind energy

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*<u>**Types of enources***</u>

↘ Renewable energy resources.

↘ Non renewable energy resources.

Examples of renewable energy resources

↘ Solar energy

↘ Wind energy

↘ Tidal energy

↘ Hydroelectricity

↘ Geothermal electricity

↘ Biogas

↘ Bio Char

↘ Biodiesel

↘ Bioethanol

↘ FirewooULIP d

↘ Charcoal

↘ Sawdust

↘ Briquettes

Examples of non renewable energy resources

↘ Coal

↘ Peat

↘ Uranium

↘ Petrol

↘ Paraffin (Kerosene)

↘ Diesel

↘ Plutonium

↘ Jet fuel

↘ Natural gas

↘ LPG(liquefied Petroleum gas)

*STEMS

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What is a stem?

↘ A structure that provides support and connection between roots and leaves.

Types of stems

↘ Aerial stems

↘ Underground stems

*__**Aerial stems**__* are plant stems found above the ground.

*__**Examples of aerial stems***__

↘ *__**Upright(erect) stems**__*

They are common in plants such as

✓ Maize plants

✓ Mvule plants

✓ Orange plants

__↘ *Weak stems/Climbing stems/Clasping stems*.__

They are common in plants such as

✓ Cowpeas

✓ Cucumbers

✓ Beans

✓ White yams

Underground stems are plant stems found underground (in the soil).

Examples of underground stems

↘ ***Rhizomes***

These are horizontal underground stems with nodes capable of growing into new plants

Examples of rhizomes

✓ Ginger

✓ Tumeric

✓ Zoysia

↘ ***Stem tubers***

These are swollen underground stems with stored food.

Examples of stem tubers

✓ Cocoyams

✓ Irish potatoes

↘ ***Corms***

These are short, vertical underground stems with stored food.

Examples of Corms

✓ Gladiolus

✓ Crocus

↘ Bulbs

These are underground small stems with swollen fleshy leaves.

Examples of bulbs

✓ Onions

✓ Garlic

✓Turlip

SOUNDS

Methods of producing sound

↘ These are ways of making sound such as

1. Singing
2. Talking (speaking)
3. Action of thunder
4. Action of ocean waves.
5. Beating drums
6. Bowing violins
7. Blowing air inside the flute
8. Action of falling water

*<u>**Methods of Storing Sound**</u>*

There are three primary methods of recording and storing sound:

1. *<u>**Mechanical Method**</u>s*

This is a method where physical mechanisms like grooves are used to record, store and play back sound.

*<u>*Examples of devices under mechanical method include:**</u>

↘ Phonograph records (vinyl records)

↘ Gramophones

↘ Early tape recorders

↘ Cylinder records

↘ Wire recorder

2. *__**Magnetic Method**__*

This is a method where magnetic fields are used to record and store sound.

*__*Examples of devices under magnetic method include:*__*

↘ Cassette tapes

↘ Magnetic tape recorders

↘ Hard disk drives (HDDs)

↘ Floppy disks

↘ Magnetic drum memory

3. *<u>**Electromagnetic Method***</u>

This is a method where electromagnetic waves are used to record and store sound.

<u>Examples of devices under this method include:</u>

↘ CDs (Compact Discs)

↘ DVDs (Digital Versatile Discs)

↘ Solid-state drives (SSDs)

↘ Flash drives

↘ Digital audio players (e.g., MP3 players)

↘ Blu-ray discs

↘ USB drives

↘ SD cards

↘ Smartphones

*__**Methods of Writing Music***__

There are two primary methods of writing music:

↘ *__**Staff Notation*:**__ A visual representation of music using symbols and notes on a staff.

↘ **Solfa Notation*:* A system of representing music using syllables (do, re, mi, etc.) to indicate pitch.

Give any three advantages of different methods of storing sound.

*(a) **Advantages of using mechanical (Physical) Method of storing sound (Vinyl Records)***

↘ Devices last long if taken care of

↘ Devices produce warm and rich sound

↘ No electricity is needed

*(b) **Advantages of using magnetic Method of storing sound (Tapes and Cassettes)***

↘ Devices can store a lot of music

↘ Sound stored is easy to edit and change

↘ Devices are portable and easy to carry

↘ Devices are relatively cheap.

*© **Advantages of using electromagnetic Method of storing sound (CDs and DVDs)***

↘ Devices produce high-quality sound

↘ Devices last long

↘ Devices resist scratches

↘ Devices are easy to play and navigate

↘ Sound takes up less space on devices.

My submission