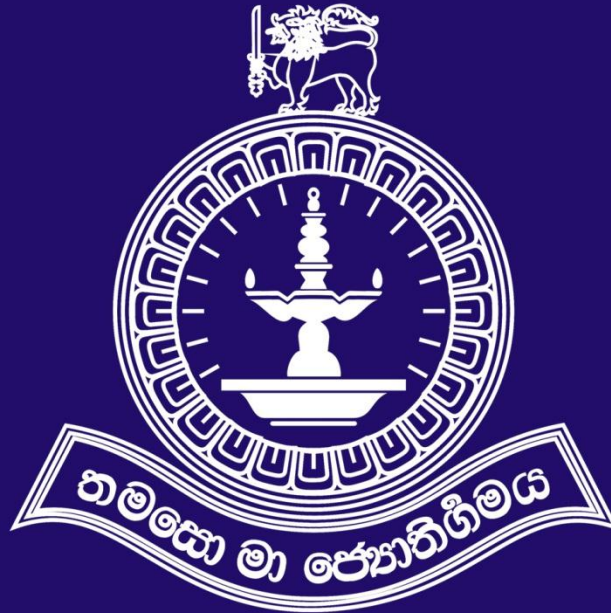


“Thurstan College, being unshaken amidst the COVID 19 challenges”

Series of Supportive Activities



Grade 6 - Science

THURSTAN COLLEGE
COLOMBO 07

Thurstan College, being unshaken amidst the COVID 19 challenges

Series of Supportive Activities

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Implementation - Deputy Principal (Education Development)

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Preparation of Activity Books

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UNIT 4

ENERGY IN OUR DAY TODAY LIFE

01. Select the answer contains **only** fossil fuels.

- (1) Coal, saw dust, fire wood
- (2) Petroleum oil, fire wood, petroleum gas
- (3) Coal, active carbon (polkatu aguru), petroleum gas
- (4) Coal petroleum oil, petroleum gas

02. The matter that can be considered as an energy source is,

- (1) Coconut oil
- (2) Coal
- (3) Diesel
- (4) Fossil Fuel

03. The most suitable energy to produce electricity in Sri Lanka is,

- 1. Hydro power and Nuclear energy
- (2) Tidal Waves and Solar energy
- (3) Solar energy and Wind energy
- (4) Geothermal energy and Nuclear energy

04. The answer which contains examples only for fossil fuel is,

- (1) Coal, Diesel, Kerosine
- (2) Coal, Kerosine, Coconut oil
- (3) Coal, Diesel, Coconut oil
- (4) Coal, Kerosine, Diesel

05. Given below are there statements related with light.

A - Light is an energy B - Light is transmitted in a straight
line. C - The narrow path in which light is transmitted is known as a light
beam

Correct statement is /are

1. A only 2. A and B only 3. C only 4. all are correct

1. Write short answers

1. What is the main source of energy?

.....

2. Which appliance help to convert solar energy to electric energy?

.....

3. Write types of energies that can gain from the sun

.....

4. Write an example for bio masses

.....

5. Write two factors necessary to form fossil fuel

.....

6. What is the type of energy that contains in water which is stored in a higher place?

.....

7. How do you call the huge, strong sea wave which reaches to the shore?

.....

8. What are the two types of tidal waves?

.....

9. From where do we obtain geothermal energy?

.....

10. Write example for fossil fuel.

.....

...

2. Write the types of energies in following places according the given diagram

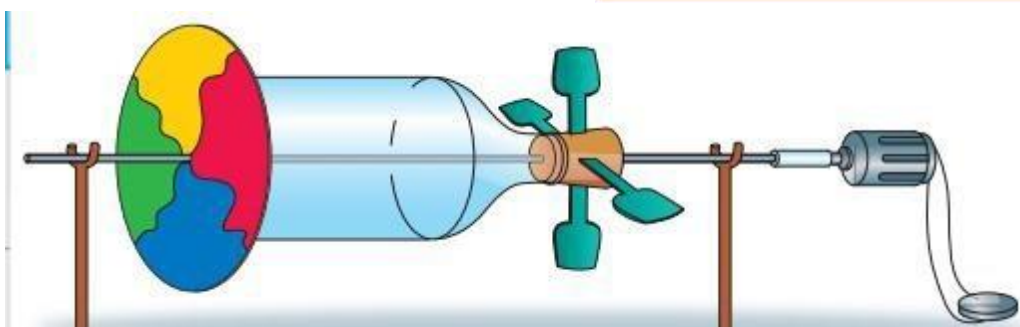
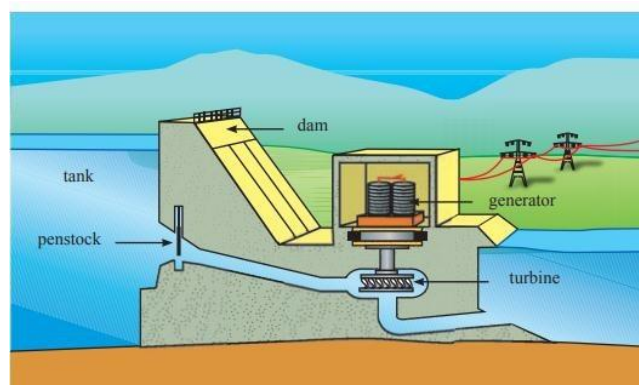
i. Tank

ii. Water in the tunnel

iii. Turbine

iv. Wires

3.



1. Write one observation of this setup.

2. What are the uses taken by wind in ancient time?

4. Write the instance where we use the following sources of energy.

i) Petrol

ii) coal

iii) Sugar cane

iv) tidal waves

5. Following diagram show 2 devices which use solar energy



A



B

Name A and B devices.

ii) What is the instrument you use to measure the temperature of the water in the beaker.

iii) Write why devices B is environmentally important

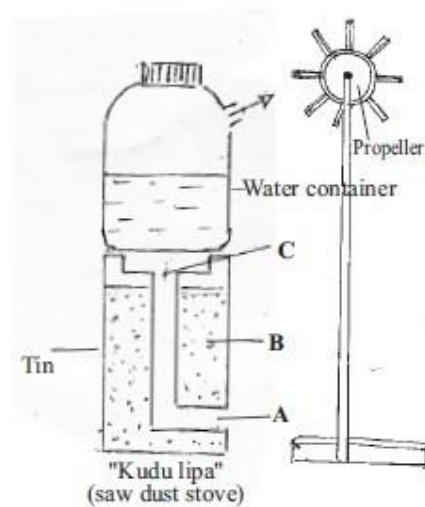
6. A.

i. How does the artificial satellites generate energy?

ii. Name two uses of fossil fuels.

iii. How does the fossil fuel generate?

B. Following image shows a setup prepared to prove that a work can be done by using energy.



(1) Write the letter of the place of "Kudu lipa" / saw dust stove where enters the fire?

(2) How can light the "Kudu lipa" / saw dust stove?

(3) The fuel used in Kudu lipa / saw dust stove is shown in letter "B". Write the most suitable two things for "B".

(4) Write two observations when boiling water in the Container.

(5) Mention two energy sources that have been used in this system.

Unit 5

Light and Vision

1. Things we need to see an object are,

- i. Eye
- ii. Light
- iii. Eye and light
- iv. Light and wind

2. Select a luminous object

- i. Decorative glass
- ii. Moon
- iii. Planet
- iv. Sun

3. Select the incorrect statement

- i. Energy for food production in plants is from sun light
- ii. As moon is a bright object , it is luminous
- iii. Unnecessary usage of light is a wastage of energy and money.
- iv. We must use light without troubling others

4. material which can transmit light energy through it is,

- i. Optic fibres

ii. Clay

iii. Paper

iv. Wood

5. Laser torch can make a,

i. Ray of light

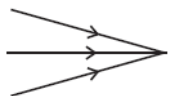
ii. Beam of light

iii. Colourless

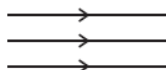
iv. Not a straight line

6. What is the Parallel light beam?

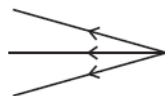
(1)



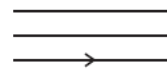
(2)



(3)



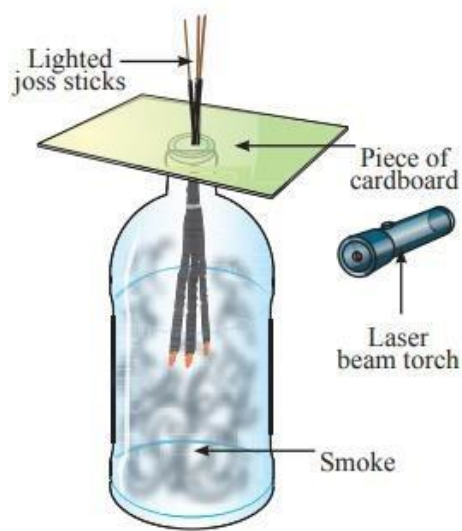
(4)



Part 2

Answer all questions

1.



Write the answers based on the above diagram.

i. What is the reason to fill the bottle with smoke?

.....

.....

ii. What is the observation?

.....

.....

iii. What is the reason to use the laser torch ?

.....

.....

2.Explain following words

i. Opaque objects

.....

.....

.....

ii. Optic fibres

.....

.....

.....

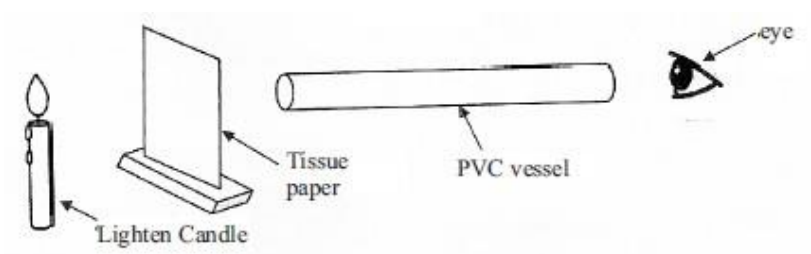
iii. Endoscope

.....

.....

.....

3. Following diagram shows a simple activity based on light and vision



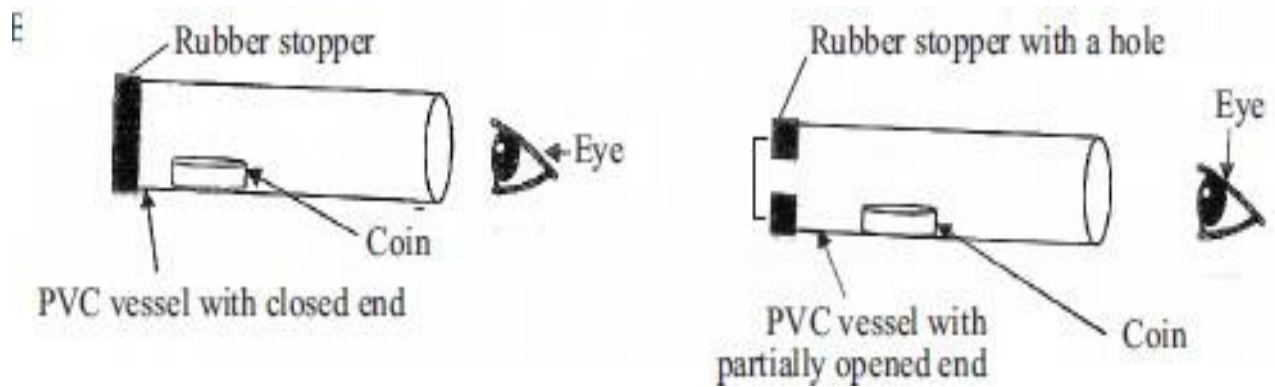
A (1) What is the observation can be obtained when look at the candle flame through the P.V.C. vessel?

(2) Write the reason for that observation.

(3) According to the traveling of light in which type of medium tissue paper is an example for?

(4) a) What will be the observation when replace tissue paper by a Cardboard sheet?

b) What is the reason for that?



(1) When looking at the coin through the vessel in activity 'X'.

a) What is the observation?

b) What is the reason for observation?

(2) When looking at the coin through the vessel in activity 'Y'.

a) What is the observation?

b) What is the reason for observation?

(3) What is the conclusion can be obtained according to those observations?

(4) Write an instance where light use in medical field.

Unit 6

Sound and Hearing

01. Which of the following is an incorrect statement about sound and hearing?

- (1) sound is produced due to vibrations
- (2) sound that are sung or played rhythmically are known as music
- (3) The excess music sound is not disturbance to ears
- (4) Unrhythmic sounds are known as noises

02. Sound is a kind of

- a) Material b) liquid c) energy d) movement

03. Drum is producing sound by vibrating

- a) An air stem b) a wooden stem c) a membrane d) a string

04. This is a musical instrument that produces sound similar to the way that serpina produce sound.

- a) ^1& violin ^2& sitar ^3& rabana ^4& flute

05. What is the sensory organ for the sound energy?

- a) Ear b) eye c) skin d) ear protectors

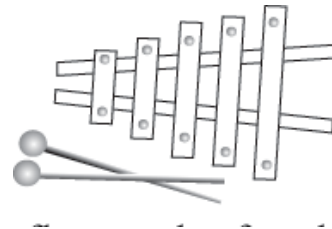
06. The bicycle bell is producing sound by vibrating

- a) Nail b) metal membrane c) string d) air column

07. which part of the human body helps to direct the sound to the ear?

- a) ear lobe b) hand c) skin d) ear drum

08. The musical instrument shown in the figure is



1. Saxophone 2. Trumpet

3. Violin 4. Xylophone

09. The instrument that produces sound the same way as a flute made of tender coconut

has is

1. Sarpina

2. Guitar

3. Sitar

4. Daul drum

Part 2

1. Use the given word list to fill in the blanks.

(artificial, music, higher, vibrating, ear lobes, ear, unpleasant, sound sources, duty, hearing,)

I. It is our.....to use sounds without disturbing others.

II. Sound sung or played rhythmically is known as

III. Some sounds we hear are natural and some sounds we hear are

.....

IV. In all instances sound is made by.....

V. Objects producing sound are called.....

VI. Unrhythmical.....sound is known as a noise.

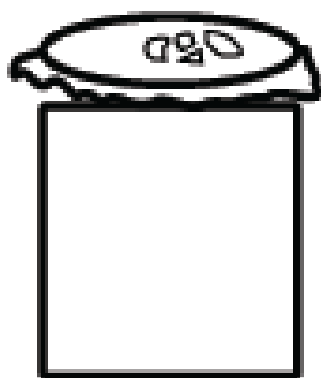
VII sound can be harmful to the ear.

VIII. help to direct the sound into the ear.

IX. Putting external object to itch the ear can damage the ear and..... made weak.

x.....is the sense organ that helps hearing

2. Saman made a small drum by covering the mouth of yoghurt cup with a thin rubber membrane A several pieces of paper were put on the membrane and the instrument was played.



i. Give two observations which could be done by saman when he played the drum.

.....

.....

ii. What conclusion can be made through this activity which is related with production of sound?

.....
.....

Natural : - ' Artificial :-

.....

iv. Name the organ which is sensitive to sound in human

.....
.....

,

v. Write a precaution that should be followed to prevent damages done by noise to that organ.

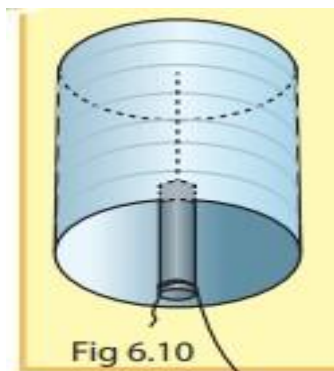
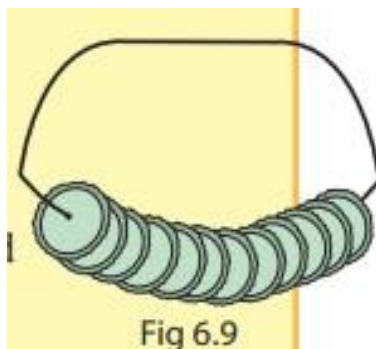
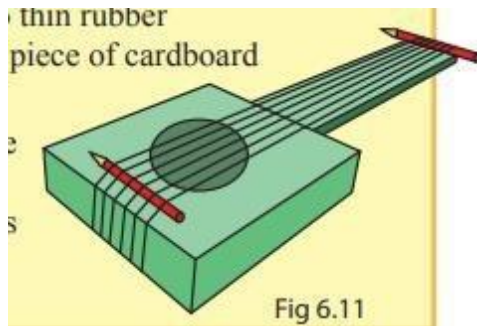
vi. What is a musical sound?

.....
.....

vii. Explain how a noise is differentiated from a musical sound.

.....
.....

3. Following diagrams are illustrating models musical instruments. Write the necessary things to prepare each of the instrument.

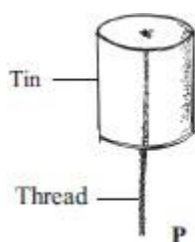


4. This diagram shows a musical instrument made by using 6 pen tubes in which one end is closed and gum tape and a stripe of cardboard.



- i. How is sound produced by this?
.....
- ii. Will each tube create a same rhythm?
.....
- iii. Mention the reason for your answer.
.....
- iv. What do you call the non-formal sounds without a rhythm?
.....
- v. Mention a factor that should be considered when we use instruments with various sounds?
.....

5. Following diagrams shows the two musical instrument which have made by the students of grade 6.



The whistle which drive away the cattle



Coconut leaf whistle

i. Mention the methods have to use to produce sound from P and Q instruments.

.....

.....

.....

ii. A students says that above instruments are sources of sounds. What is the reason for that?

.....

a) What is the observation you can obtain when put some styrofoam balls on the bottom of the tin after it starts to function?

.....

.....

.....

b) What is the reason for above observation?

.....

.....

c) Write the names of another two instruments that you have made in your class room.

.....
.....

d) What are the stuffs you used to produce those instruments?

.....
.....

e) What is the name of sound produced when a musical instrument play rhythmically?

.....

f) What is the name of sound producing a musical instrument do not play rhythmically?

.....

g) Give an example for above types of sound in the environment.

.....

