

**MEMO****TOM NEWBY SCHOOL EXAMINATION**

Subject	NS/TECH	Examiner	MS M. MPESU
Date	15 November 2017	Total marks	40
Session	1	Duration	1 HOUR
Grade	4	Moderator	MRS M. FOURIE
Special instructions/ Equipment	Read and answer ALL questions carefully. Good Luck. Think before you INK!		
This assessment has been compiled using notes and information contained in the Tom Newby School resource material. The marking memorandum has been compiled accordingly. While alternative responses will be given due acknowledgement, the official memorandum will be considered a priority document to ensure uniformity of marking.			

Name:	Surname:	Class:
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QUESTION 1**(10 ÷ 2 = 5)****Read the following questions carefully and circle the correct answer.**

- The main source of energy for all living things is
 - food
 - the sun ✓
 - light
 - heat
- The transfer of energy from the sun to plant to people is called
 - Transfer
 - A chain
 - Food chain ✓
 - Organism chain
- Natural gas can be used
 - To eat
 - To transfer energy
 - To cook ✓
 - To create fuels
- Which of the following is a form of energy?
 - Fire
 - Touch
 - Sun ✓
 - Sound
- Fossil fuels come from
 - Petrol
 - Stored energy
 - Dead remains of plants and animals ✓
 - Coal and oil



6. Which of the following is not a source of heat?
 a. Blanket ✓
 b. Stove
 c. Fire
 d. Candle
7. Which sense organ do you use to detect sound?
 a. Eyes
 b. Nose
 c. Ears ✓
 d. Mouth
8. Many musical instruments use _____ input energy to produce sound
 a. Stored
 b. Sound
 c. Movement ✓
 d. Vibrations
9. Which of the following is an indigenous musical instrument?
 a. A Triangle
 b. Cello
 c. Marimba ✓
 d. Trumpet
10. Sound cannot travel through
 a. Water
 b. Air
 c. String
 d. Vacuum ✓



QUESTION 2

(10 ÷ 2 = 5)

Answer True or False

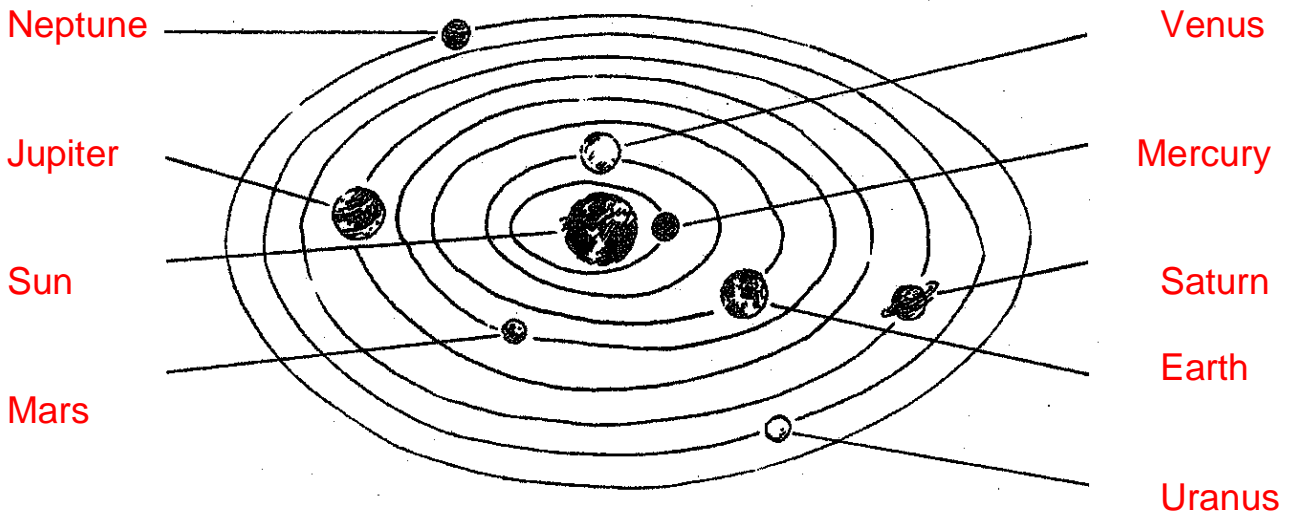
1. We can live without energy **False** ✓
2. A food chain does not need the sun **False** ✓
3. We can feel heat energy **True** ✓
4. Petrol is a fossil fuel **True** ✓
5. Vibrations cause sound **True** ✓
6. Wood has stored energy **True** ✓
7. Sound can travel without a medium **False** ✓
8. Big vibrations make high pitch **False** ✓
9. Volume is how high or how low a sound is **False** ✓
10. Percussion musical instruments are played by blowing them **False** ✓

QUESTION 3
The Sun

(10)

1. The list below shows names of planets in order from the sun.
Use the information from the word box to label the diagram below.
Label the sun too.

Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune, Sun



2. Which object is a star?
Sun ✓
3. What is a Solar System?
The sun and 8 planets orbiting around it ✓
4. Explain why there is no life on Mercury
Mercury is too close to the sun, there is too much heat ✓
5. Why is Earth the only planet with living things?
It is at the right position not too close or too far from the sun ✓
6. Explain the difference between rotate and orbit
Rotate means turning around in one place, orbit means going around something ✓
7. Pluto is no longer called a planet on the Solar System. Give one reason why
It is a dwarf planet/has no regular orbit around the Earth ✓

QUESTION 4**(10)****Planet Earth**

Complete the sentences by matching Column A with Column B at the bottom.

<u>COLUMN A</u>		<u>COLUMN B</u>		
1. The Earth's shape is _____		A. The Earth has		
2. _____ mostly of rock		B. around the sun once a year		
3. The Earth's surface is covered ____		C. The Earth is made		
4. _____ an atmosphere around it		D. like that of a ball		
5. The Earth moves _____		E. with water and land		
1. D	2. C	3. E	4. A	5. B

Answer the following questions

6. Name 2 features of the Earth: **Oceans/Planets, Mountains, Rivers** ✓
7. The Earth is like a sphere. Why don't people fall off the Earth?
The gravity pulls everything to the centre of the Earth ✓
8. A continent is a big piece of land like Africa. What is an Island?
Piece of land surrounded by water ✓
9. The sun is a hot ball of burning gas. A planet is made of rock and water surrounded by **Atmosphere** ✓
10. Name 2 oceans found on Earth **Indian/Atlantic/Pacific/Arctic** ✓

QUESTION 5**(5)**

Explain the meaning of the following words/terms on the Rocket System.

1. Space **What is found after the atmosphere** ✓
2. Launch **to send a space craft into space** ✓
3. Astronaut **a person who travels in space** ✓
4. Rocket **a machine that travels in space** ✓
5. Atmosphere **area around the earth that has air** ✓

QUESTION 6**(5)****The Moon**

The following statements about the moon are not correct, write the correct ones under each sentence:

1. There are 3 phases of the moon. **There are 8 phases of the moon. ✓**
2. The moon takes 365¼ days to orbit the Earth. **The moon takes 29¼ days to orbit the Earth. ✓**
3. The moon produces light like the sun. **The moon reflects light from the sun. ✓**
4. The moon is shaped like a triangle. **The moon is shaped like a Sphere/ball. ✓**
5. No-one has ever been to the moon. **There are people who have been to space. ✓**

**TOTAL: 40**

**GO THROUGH THE
PAPER AGAIN, ONCE
FINISHED AND CHECK
YOUR WORK!!**