



Sarasas Witaed Bangbon School  
Bilingual Programme  
Worksheet for Grade 5 Semester 1/2021  
Subject: Science

Name ..... Class ..... No .....

**Part A: Multiple Choice:**

**Choose the correct answer. (Questions 1-12)**

- 1 The energy required to move an object is called \_\_\_\_\_.  
A. gravity      B. magnetism      C. force      D. pressure
- 2 It is the product of gravitational force!  
A. pressure      B. area      C. mass      D. weight
- 3 A word to describe the space occupied by the air we breathe!  
A. wind      B. humidity      C. air pressure      D. atmosphere
- 4 Barometers are used to measure the height above sea level are called \_\_\_\_\_.  
A. air pressure      B. barograph      C. aneroid barometer      D. altimeters
- 5 A barometer that doesn't have mercury is called \_\_\_\_\_.  
A. barometer      B. altimeter      C. aneroid barometer      D. barograph
- 6 Gravity is a \_\_\_\_\_ force.  
A. pushing      B. pulling      C. strong      D. weak
- 7 The movement of the cold and warm air is called \_\_\_\_\_.  
A. wind      B. air pressure      C. relative humidity      D. humidity
- 8 \_\_\_\_\_ of one hurricane has enough energy to match the nuclear stockpiles of the world.  
A. 15      B. 10      C. 5      D. 20
- 9 "Pascal" is a \_\_\_\_\_ unit in \_\_\_\_\_ system.  
A. pressure - Britain      B. force - metric      C. pressure - metric      D. force - Britain

10 The name of destructive strong winds in the Atlantic ocean are \_\_\_\_\_.  
A. tropical cyclones B. tornadoes C. strong wind D. hurricane

11 It is often explained as the force applied to an area!  
A. force B. density C. pressure D. volume

12 The name of destructive strong winds in the pacific ocean are \_\_\_\_\_.  
A. tornadoes B. hurricanes C. tropical cyclones D. strong wind

#### Part B: Drag & Drop:

There are 4 main kinds of force being provided in the box below. Study the box and write the type of force for each question from 13-17.

- A) gravitational force
- B) electric force
- C) magnetic force
- D) strong force
- E) weak force

13 "This force holds together the internal structure at the center of an atom" \_\_\_\_\_

14 "Without this force, if we jumped off the ground, we would carry on flying straight out into space" \_\_\_\_\_

15 "This force changes the internal structure of an atom. We see this working in some kinds of radio-active decay" \_\_\_\_\_

16 "This force is about the attraction or repulsion between two objects that carry an electric charge" \_\_\_\_\_

17 "This force is caused by the combined force of sub-atomic particles or the movement of tiny particles called electrons moving through wires as an electric current" \_\_\_\_\_

### Part C: Matching:

Match column A (Vocabularies) to its definition in column B. (Questions 18-25).

	Column A		Column B
18	Structure	A	the way something is put together
19	Attraction	B	something that is not solid, usually gases or liquids
20	Fluid	C	the pushing away of one object by another
21	Gravity	D	the pulling towards one object by another
22	Repulsion	E	the relationship between the mass of an object and its size
23	Density	F	existing or happening inside a person or an object
24	Mass	G	the attraction of a smaller body to a larger one
25	Internal	H	the amount of matter in any solid object or in any volume of liquid or gas

### Part D: Reading Comprehension:

First, read the passage, and based on the words inside the box, answer the questions 26-45 in the answer sheet. (Only place letters in the answer-sheet)

#### Force and water pressure

If you heat a fluid in a small space, the molecules wish to move farther apart but are restricted by the volume of the space. This causes a rise in pressure. With gases this rise in pressure is very great. An example of this is when you fire a gun. A rifle bullet travels at 330 meters per second, when it leaves the barrel of a gun.

James Watt discovered that when liquids were being turned into vapor there was a great deal of pressure created, which could be changed into mechanical energy.

He first discovered this when watching a pot of water boil. The lid of the pot kept rising to let out excess pressure created by the boiling water creating steam. From observing this he created the first steam engine.

The oldest form of water created energy uses the turbine principle.

## Force and water pressure

If you heat a 26        in a small space, the 27        want to move farther apart but are limited by the 28        of the 29       . This causes a rise in 30       .

When we fire a 31       , a rifle bullet travels at 32        meters per second.

James Watt found out that when 33        changed into 34        there was a great deal of pressure created, which could be changed into 35        energy.

James Watt discovered this when looking at a 36        of water boil. The 37        of the pot kept rising to let out excess pressure created by the boiling water creating 38       . From observing this he created the first steam 39       .

The oldest form of water created energy uses the 40        principle.

A steam	E turbine	I space	M gun
B molecules	F liquids	J vapor	N volume
C fluid	G mechanical	K 330	O pot
D engine	H pressure	L lid	

26	fluid	34	_____
27	_____	35	_____
28	_____	36	_____
29	_____	37	_____
30	_____	38	_____
31	_____	39	_____
32	_____	40	_____
33	_____		