



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 09.06.20

Duration: 40 min

Worksheet Solution 33

Full Marks: 15

FORCE AND PRESSURE/ PRESSURE IN GASES

Choose the Correct options:

- The bubble is stable because the atmospheric pressure inside and outside is
 - equal**
 - different
 - lesser
 - more
- The density of mercury is
 - 13.6 times of water**
 - 12 times of water
 - 10 times of water
 - 20 times of water
- The Earth is surrounded by a cover of air called
 - gravity
 - energy
 - ozone
 - atmosphere**
- Low pressure will usually bring what kind of weather?
 - Sunny
 - Calm
 - Stormy**
 - Vacuum
- High pressure will usually bring what kind of weather?
 - Good**
 - Bad
 - Both Good and Bad
 - None
- What is the instrument called that measures air pressure?
 - thermometer
 - ruler
 - yard stick
 - barometer**
- Moving air is called _____.
 - mud
 - wind**
 - rain
 - sunshine
- If a leaf blows up in the air where is there more air pressure?
 - Under the leaf**
 - Above the leaf
 - To the right of the leaf
 - To the left of the leaf
- Sydney keeps blowing up a balloon until it pops. Where was there more pressure?
 - Inside the balloon**
 - Outside of the balloon
 - On top of the balloon

- D. Equal pressure everywhere
10. What instrument do you use to measure relative humidity?
- A. barometer
 - B. psychrometer**
 - C. wind mill
 - D. weather vane
11. Earth's atmosphere is pressuring each square inch with a force of _____.
- A. 6.67 kg per square inch**
 - B. 14.7 kg per square inch
 - C. 10.9 kg per square inch
 - D. 24 kg per square inch
12. Amount of mass in a given volume of air
- A. Altitude
 - B. Density**
 - C. Humidity
 - D. Atmosphere
13. Which sentence is false.
- A. Air has mass because it is composed of atoms and molecules.
 - B. Because air has mass, it has density and pressure.
 - C. The more molecules in a given volume of air, the greater its density.
 - D. The greater the density of air, the less pressure**
14. Which is true?
- A. Air pressure is higher at high altitudes.
 - B. Density of air is greater at high altitudes.
 - C. The percentage of oxygen in the air is lower at high altitudes.**
 - D. The amount of oxygen in each breath is less at high altitudes.
- 15.. Sucking a drink through a straw ... where is there more pressure?
- A. Going out of the straw**
 - B. Going inside of the straw
 - C. Equal pressure
 - D. No pressure