#### SGO Pre-Assessment – Grade 6 – Earth Science ANSWER KEY

#### Modified True/False 2 pts (a) (20)

Indicate whether the statement is true or false. You must write out the entire word (true or false). If false, change the identified word or phrase in the blank to make the statement true.

- FALSE 1. An inference is an activity performed to prove or disprove a hypothesis. experiment
- TRUE 2. Conduction is the transfer of heat by direct contact of atoms and molecules.
- TRUE 3. Buoyancy states that less dense objects will float in more dense fluids.
- FALSE 4. Water can exist in three substances, depending on the pressure and temperature, phases or forms
- FALSE 5. Weather events tend to happen when two air masses that are alike interact, different
- TRUE 6. Latitude lines are imaginary horizontal lines on a map that are north and south of the equator.
- TRUE 7. Superposition means that the bottom layer of a rock formation is the oldest.
- FALSE 8. The outermost layer of Earth's surface is called the mantle, crust
- TRUE 9. An example of mechanical weathering is when a large rock falls down a slope and breaks into small pricees.
- FALSE 10. Gravitational force on the Moon is more than gravitational force on Earth. less than

#### Multiple Choice 1 pt @ (31)

Identify the choice that best completes the statement or answers the question. Write the letter of the correct answer in the space provided.

Use the following information to answer the following questions 1 and 2. Elena notices that when her math teacher gives exams on colored paper, the students all seem to get better grades.

- Which of the following would be a good hypothesis for the observation Elena made?
- Colored paper makes students smart. Students like colored paper better.
- c. White paper makes students work harder. d. Giving math tests on colored paper improves students' scores.

Elena's math teacher helped test her kypothesis by giving their next math test to half the class on colored paper and half the class on white paper. The half of the class that took the test on colored paper scored a total of 1500 points on the test. The half of the class that took the test on white paper scored a total of 1750 points.

What type of data did Elena collect?

IJa. Qualitative b. Chemical.

- c. Hypothetical
- Quantitative

- C What is the height of a 1.9-meter tall person in centimeters?
  - a. 1.9 cm

b. 19 cm

e. 190 em

d. 1900 cm

 On the Fahrenheit scale, water freezes at 32°F and boils at 212°F. At what temperature does water freeze and boil on the Celsius scale?

a. Water freezes at 100°C and boils at 0°C.

- b. Water freezes at 0°C and boils at 100°C.

c. Water freezes at 37°C and boils at 98.6°C.

- d. Water freezes at 20°C and boils at 37°C.
- All matter consists of tiny particles known as:
  - b. compounds. c. molecules.
- d. attorns.

The atoms in solids:

a. elements.

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**Christian G. Meyer** 

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