Please do not write on the quiz! Record answers on separate answer sheet.

**Thinking Like An Engineer Bellwork Quiz 2**

**Form A**

1.Put the Problem Solving Loop in the correct order.

\_\_\_\_\_ Brainstorm ideas and pick the best one.

\_\_\_\_\_ Identify the problem.

\_\_\_\_\_ Test the idea.

\_\_\_\_\_ Evaluate the results.

\_\_\_\_\_ Explore information and collect ideas.

1. 1
2. 2
3. 3
4. 4
5. 5

2.A copper wire is an example of a:

1. Insulator
2. Conductor
3. Constraint
4. Circuit

3.True or False: When the light is on in the classroom, the circuit is closed.

4.Select the statement that describes a closed circuit.

1. In a closed circuit the energy from a source(battery) will not flow to the object(lightbulb).
2. In a closed circuit there is a break in the flow of energy.
3. In a closed circuit the energy from a source(battery) will flow to the object(lightbulb).
4. There is no such thing as a closed circuit.

5.Select the statement that describes an open circuit.

1. In an open circuit the energy from a source(battery) will flow to the object(lightbulb).
2. In an open circuit there is a break in the flow of energy.
3. In an open circuit the lightbulb will be lit.
4. There is no such thing as an open circuit.

6.True or False: A problem can have more than one solution.

7.The clay we used in our circuit model is an example of a:

1. Conductor
2. Constraint
3. Circuit
4. Insulator

8.What is a constraint?

1. A solution.
2. An insulator in a circuit.
3. A restriction or problem.
4. A conductor in a circuit.

Please do not write on the quiz! Record answers on separate answer sheet.

**Thinking Like An Engineer Bellwork Quiz 2**

**Form B**

1.Select the statement that describes a closed circuit.

a.In a closed circuit the energy from a source(battery) will not flow to the object(lightbulb).

b.In a closed circuit there is a break in the flow of energy.

c.In a closed circuit the energy from a source(battery) will flow to the object(lightbulb).

d.There is no such thing as a closed circuit.

2.True or False: A problem can have more than one solution.

3.Select the statement that describes an open circuit.

a.In an open circuit the energy from a source(battery) will flow to the object(lightbulb).

b.In an open circuit there is a break in the flow of energy.

c.In an open circuit the lightbulb will be lit.

d.There is no such thing as an open circuit.

4.The clay we used in our circuit model is an example of a:

a.Conductor

b.Constraint

c.Circuit

d.Insulator

5.What is a constraint?

a.A solution.

b.An insulator in a circuit.

c.A restriction or problem.

d.A conductor in a circuit.

6.Put the Problem Solving Loop in the correct order.

\_\_\_\_\_ Brainstorm ideas and pick the best one.

\_\_\_\_\_ Identify the problem.

\_\_\_\_\_ Test the idea.

\_\_\_\_\_ Evaluate the results.

\_\_\_\_\_ Explore information and collect ideas.

A.1

B.2

C.3

D.4

E.5

7.A copper wire is an example of a:

a.Insulator

b.Conductor

c.Constraint

d.Circuit

8.True or False: When the light is on in the classroom, the circuit is closed.