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

**Thinking Like An Engineer Bellwork Quiz 1**

**Form A**



1. What is an observation?
2. An assumption on what is happening.
3. An educated guess.
4. Using our 5 senses to gather data.
5. Something we notice only with our eyes.
6. What is an inference?
7. An explanation of our observations
8. An educated guess
9. A fact that explains what is happening
10. The reasoning part of a CER.
11. True or False: Observations are the **evidence** part of you Claim, Evidence, and Reasoning (CER)
12. True or False: the Reasoning is to explain how the evidence supports the claim.
13. What is the claim?
14. The investigation question
15. Is the answer to the investigation question.
16. What you think is going to happen.
17. The answer to the evidence.
18. True or False: You can make an inference without an observation.
19. What is a prototype?
20. A final product of an idea
21. The first draft of an idea that can be tested
22. The first draft of an idea that cannot be tested
23. A product that needs no revision
24. Why is it important to design a model before building a prototype?
25. You do not need to make a model before you build a prototype.
26. So you can use all the materials needed.
27. To get a visual/idea on the structure of a prototype so the function can be tested.
28. You should build a prototype before you draw a model.
29. What is the job of an engineer?
30. To build cars only.
31. To make buildings
32. To design functional prototypes and solve problems.
33. To design electronics only.
34. True or False: In the engineering design process, step 5 improvement is where revisions are made to prototypes to improve the function.

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

**Thinking Like An Engineer Bellwork Quiz 1**

**Form B**



1. What is a prototype?
2. A final product of an idea
3. The first draft of an idea that can be tested
4. The first draft of an idea that cannot be tested
5. A product that needs no revision
6. True or False: In the engineering design process, step 5 improvement is where revisions are made to prototypes to improve the function.
7. What is an observation?
8. An assumption on what is happening.
9. An educated guess.
10. Using our 5 senses to gather data.
11. Something we notice only with our eyes.
12. What is the claim?
13. The investigation question
14. Is the answer to the investigation question.
15. What you think is going to happen.
16. The answer to the evidence.
17. True or False: You can make an inference without an observation.
18. What is an inference?
19. An explanation of our observations
20. An educated guess
21. A fact that explains what is happening
22. The reasoning part of a CER.
23. True or False: the Reasoning is to explain how the evidence supports the claim.
24. What is the job of an engineer?
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26. To make buildings
27. To design functional prototypes and solve problems.
28. To design electronics only.
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30. Why is it important to design a model before building a prototype?
31. You do not need to make a model before you build a prototype.
32. So you can use all the materials needed.
33. To get a visual/idea on the structure of a prototype so the function can be tested.
34. You should build a prototype before you draw a model.