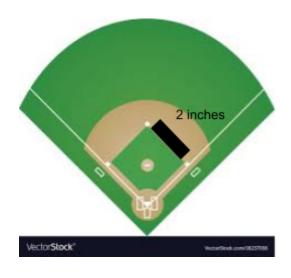
Questions

Module 1.0: Softball vs. Baseball

- 1. Which of the following would NOT support the function of Softball?
 - a. Size/shape
 - b. Materials
 - c. Color
 - d. Texture
- 2. True or False: The Venn diagram is a good tool to compare and contrast a softball and baseball's properties.
- 3. To best understand the function of softball, baseball, golf ball and tennis ball, which is most important:
 - a. Internal properties
 - b. Close observation
 - c. Physical properties
 - d. Each of the above

Module 2.0: The Field of Play

- 1. Which of the following is a key difference between the materials and surfaces of the original baseball field versus today's fields (hint: there is more than one answer)?
 - a. In the original field, the playing field/surface was all grass.
 - b. In the original field, the outline was spray painted.
 - c. In the modern field, the pitching mound is flat.
 - d. In the modern field, the grass is synthetic (fake)
- 2. List three similarities between the materials and surfaces of the original baseball field to the field used today.
- 3. Little League: Scaled Baseball Field If the scale of the field diagram is 1 inch = 30 feet, what is the distance between first and second base?
 - a. 2 inches
 - b. 30 feet
 - c. 60 inches
 - d. 60 feet



Module 3.0: Is it a Ball or Strike?

- 1. Which of the following is NOT an example of Energy and Speed.
 - a. A ball rolling
 - b. A car changing speeds
 - c. A pitcher changing speeds
 - d. A player catching the ball
- 2. Which of the following is correct (< >)?
 - a. 40% Strikes > 60% Balls
 - b. 47 mph > 53 mph
 - c. 84 mph < 78 mph
 - d. 68% Strikes > 32% Balls

Module 4.0: Advancements in Baseball

- 1. True or False: Technology, such as instant replay, has had only a positive impact on the game of baseball.
- 2. Which of the following is part of the Engineering Design Process?
 - a. Criteria and Constraints
 - b. Brainstorming
 - c. Improvements
 - d. Asking questions
 - e. All of the above
 - f. None of the above
- 3. Bonus: True or False: The MLB (Major League Baseball) Replay Command Center is located in New York.

Module 5.0: What is a Golf Ball?

- 1. Which of the following properties would *not* help you find out the function of an object?
 - a. Weight
 - b. Material type
 - c. Color
 - d. Size

- 2. What properties of a golf ball have the largest impact on it's function?
 - a. Material type
 - b. Color
 - c. Weight
 - d. Size
- 3. Explain why this statement is true: Golf balls were specifically engineered for a specific function.

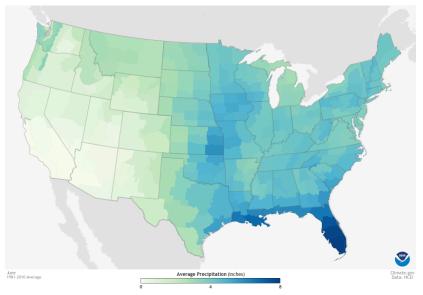
Module 6.0: Scoring in Golf

- 4. What mathematical expression shows the best golf score to the worst?
 - a. 10 > 9 > 4
 - b. 4 < 9 < 10
 - c. 1 < 4 < 8
 - d. 8 > 4 > 1
- 5. What algorithm would be the most useful in calculating a total golf score?
 - a. Add all strokes together and subtract from the par of the course.
 - b. Subtract each hole from par and add together each hole.
 - c. Multiply the strokes by the hole number and divide by 18.
 - d. Add par and the number of strokes and subtract the handicap.

Module 7.0: Force of a Golf Swing

- 1. What causes the golf ball to be in motion?
 - a. Radiation Energy
 - b. Collision
 - c. Balanced Forces
 - d. Unbalanced Forces
- 2. Which of the following would *not* increase the energy of the golf ball? (*Hint: there is more than one answer*).
 - a. Increase the speed
 - b. Hit it higher
 - c. Hit it harder
 - d. Decrease the weight (mass)
 - e. Increase the weight (mass)
- 3. T or F: It is important to control the other variables (like the person hitting the ball) in an experiment.

Module 8.0: Climate and Weather in Golf



- 1. Based on the above map, what area of the country has the highest level of precipitation?
 - a. Northeast
 - b. Midwest
 - c. Southeast
 - d. Southwest
- 2. Why is precipitation important for a golf course location?
- 3. T or F: The climate of an area determines if the area should support a golf course.

Answer Key

Module 1.0: Softball vs. Baseball

- 1. C
- 2. True
- 3. D

Module 2.0: The Field of Play

- 1. A and D
- 2. Answers will vary.
- 3. D

Module 3.0: Is it a Ball or Strike?

- 1. D
- 2. D

3.	F
	Module 4.0:Advancements in Baseball
	Module 4.0. Advancements in Basebail
1.	F
2.	E
3.	T
	Module 5.0: What is a Golf Ball?
1.	
2.	
3.	Answers will vary. Different balls can be made of similar material (baseball), have a
	similar size (ping pong ball), or weight (tennis ball), as well as behave differently due to
	other properties. Only golf balls have a specific set of properties designed to behave as
	needed on the golf course
	Module 6.0: Scoring in Golf
1.	
2.	A
	Module 7.0: Force of a Golf Swing
1.	
	B, D
3.	
J.	·
	Module 8.0: Climate and Weather in Golf
4	

Answers will vary. Provides the water for important grass growth with irrigation.
T