

# Assessment Questions

## Grades 3-5

### Module 1.0: The Puck & Stick

1. Which of the following balls would function most like a hockey puck based on its physical properties?
  - a. Baseball
  - b. Tennis ball
  - c. Ping pong ball
  - d. Golf ball
2. Which of the following clubs/sticks would function most like a hockey stick based on its physical properties?
  - a. Tennis Racket
  - b. Golf Club
  - c. Baseball Bat
  - d. Ping Pong Paddle

### Module 2.0: The Net

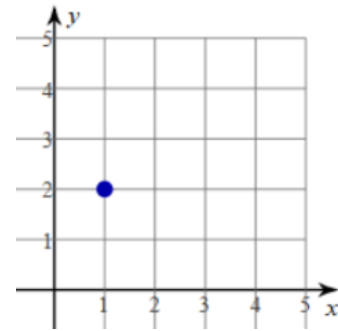
1. What are the dimensions for the width, height, and depth of a goal?
  - a. Width = 72 in   Height = 48 in   Depth = 40 in
  - b. Width = 48 in   Height = 72 in   Depth = 40 in
  - c. Width = 40 in   Height = 48 in   Depth = 72 in
  - d. Width = 72 in   Height = 40 in   Depth = 48 in
2. What is the difference between parallel and perpendicular lines?
  - a. Parallel lines are the exact same line, perpendicular lines are lines that intersect at a 90 degree angle
  - b. Parallel lines are lines that don't intersect, perpendicular lines are the exact same line
  - c. Parallel lines are lines that don't intersect, perpendicular lines are lines that intersect at a 90 degree angle

### **Module 3.0: Playing on Ice**

1. True or False: Molecules and Molecular Structure are NOT related?
2. Which of the following is considered a liquid?
  - a. Water
  - b. Oxygen
  - c. Ice
  - d. None of the above
3. Which of the following is considered a solid?
  - a. Oxygen
  - b. Vapor
  - c. Ice
  - d. Water

### **Module 4.0: Ice Time**

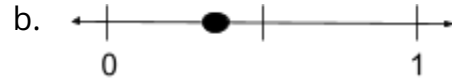
1. Which coordinate represents the location of the point on the graph?
  - a. (2,1)
  - b. (3,0)
  - c. (0,3)
  - d. (1,2)
2. A \_\_\_\_\_ angle measures exactly 90 degrees.  
A \_\_\_\_\_ angle measures less than 90 degrees.  
A \_\_\_\_\_ angle measures greater than 90 degrees.



Word Bank : *Acute, Obtuse, Right, Straight, Parallel, Perpendicular*

### **Module 5.0: Puck Precision**

1. If you shoot the puck 10 times and score on 7 of those shots, write your goals made as a fraction and decimal.
  - a.  $\frac{3}{10}$ , 0.03
  - b.  $\frac{3}{10}$ , 0.30
  - c.  $\frac{7}{10}$ , 0.07
  - d.  $\frac{7}{10}$ , 0.70
2. A person shoots the puck 5 times and scores on 2 of those shots. Which number line would represent their probability of making a goal?



### **Module 6.0: Shooting Forces in Hockey**

1. What causes a hockey puck to be in motion?
  - a. Balanced Forces
  - b. The Ice
  - c. Unbalanced Forces
  - d. Collision
  
2. Which of the following best describes the relationship between Force, Speed, and Motion?
  - a. The less motion in striking the puck = more force = more speed of a pass or shot.
  - b. The more motion in striking the puck = more force = more speed of a pass or shot.
  - c. The more motion in striking the puck = less force = less speed of a pass or shot.
  - d. All of the above
  
3. True or False: A Force Diagram can determine if there is more of an unbalanced or balanced force.

### **Module 7.0: Skating in the Zone**

1. A player skates around a rectangle that measures 50 feet long and 25 feet wide. Which equation could be used to find how far (perimeter) the player skated?
  - a.  $L \times W = 50 \times 25$
  - b.  $L + W + L + W = 50 + 25 + 50 + 25$
  - c.  $4L + 4W = 4(50) + 4(25)$
  - d.  $L + W = 50 + 25$

2. A player skates around a rectangle that measures 50 feet long and 25 feet wide. Which equation could be used to find how much area the player skated?
- a.  $L \times W = 50 \times 25$
  - b.  $L + W + L + W = 50 + 25 + 50 + 25$
  - c.  $4L + 4W = 4(50) + 4(25)$
  - d.  $L + W = 50 + 25$

### **Module 8.0: Advancements in Hockey**

1. Which steps are correct for the EDP (Engineering Design Process)?
- a. Brainstorming → Build → Present → Identify the problem → Redesign
  - b. Identify the problem → Brainstorming → Build → Present → Redesign
  - c. Present → Identify the problem → Brainstorming → Build → Redesign
  - d. Identify the problem → Build → Redesign → Present
2. True or False: Defining a list of Criteria and Constraints is NOT part of redesigning a product.

# Answer Key

## Grades 3-5

### Module 1.0: The Puck & Stick

- 1) A
- 2) B

### Module 2.0: The Net

1. A
2. C

### Module 3.0: Playing on Ice

1. F
2. A
3. C

### Module 4.0: Ice Time

1. D
2. Right, Acute, Obtuse

### Module 5.0: Puck Precision

1. D
2. B

### Module 6.0: Shooting Forces in Hockey

1. C
2. B
3. T

### Module 7.0: Skating in the Zone

1. B
2. A

### Module 8.0: Advancements in Hockey

1. B
2. F