Grades 3-5

Name: _____

Assessment Questions

Module 1.1: Kicking and Energy Transfer

1. When two objects (a ball and a foot) collide, _____ is transfered?
   a. Matter
   b. Energy
   c. Force
   d. Vibrations

2. Which type of soccer juggle will produce the most force?
   a. Knee
   b. Foot
   c. Chest
   d. Head

Module 2.1: Calculating Calories and Heart Rate

1. Calculate the number of calories burned when Marlene, who weighs 100 pounds, played soccer for 2 hours using the following equation: (Weight/2) x 8.5 x number of hours.
   a. 180 calories
   b. 425 calories
   c. 850 calories
   d. 1020 calories

2. Calculate the number of calories burned when Jay, who weighs 120 pounds, played video games for 2 hours using the following equation: (Weight/2) x 1.5 x number of hours.
   a. 180 calories
   b. 425 calories
   c. 850 calories
   d. 1020 calories

Grades 3-5

Name: _____

Assessment Questions

3. Compare the two equations and select the best answer.
   Soccer: (Weight/2) x 8.5 x number of hours
   Playing Video Games: (Weight/2) x 1.5 x number of hours
   a. Playing video games for twice as long as playing soccer will burn the same number of calories.
   b. Playing soccer burns the same calories as playing video games.
   c. Kids who play video games weigh less because weight is divided by two.
   d. Kids playing soccer will burn more calories.

Module 3.1: Measuring Throw-Ins

1. Which of the following is the best tool to measure a soccer field?
   a. A ruler in inches
   b. A tape measure in meters
   c. A meter stick in centimeters
   d. A tape measure in inches

2. How many centimeters are in 4 meters?
   a. 10
   b. 40
   c. 100
   d. 400

3. Convert 5.8 meters into centimeters.
   a. 0.58
   b. 58
   c. 580
   d. 5800

Grades 3-5

Name: _____

Assessment Questions

Module 4.1: Soccer vs Futsal System

1. What is a system?
   a. A group of parts working together
   b. A part of the body
   c. Tool that fix machines
   d. Hi-tech devices
2. Which observations support the claim that players perform better on turf compared to regular grass?

   a.

	Bounce	Speed of Ball
Turf grass	3 ft	1 ft/s
Regular grass	2 ft	1 ft/s

   b.

	Bounce	Speed of Ball
Turf grass	3 ft	1 ft/s
Regular grass	6 ft	5 ft/s

   c.

	Bounce	Speed of Ball
Turf grass	2 ft	2 ft/s
Regular grass	2 ft	2 ft/s

   d.

	Bounce	Speed of Ball
Turf grass	5 ft	8 ft/s
Regular grass	2 ft	1 ft/s

Grades 3-5

Name: _____

Assessment Questions

Module 5.1: Measuring Football Distances

1. Molecules are always…
   a. Different sizes
   b. Invisible
   c. Different colors
   d. Moving

2. Like in an inflated soccer ball, molecules under pressure…
   a. Get squished
   b. Get smaller
   c. Move faster
   d. Move slower

Module 6.1: The Goal of a Soccer Field

1. What spheres of the earth influence how the grass on the soccer field will grow? (Answer all that apply).
   a. Geosphere
   b. Biosphere
   c. Magnetosphere
   d. Atmosphere
   e. Hydrosphere
   f. Cryosphere

Grades 3-5

Name: _____

Assessment Questions

2. Which sphere does carbon dioxide come from (CO2 is what grass uses to make its own food)?
   a. Geosphere
   b. Magnetosphere
   c. Atmosphere
   d. Hydrosphere

4. Which sphere does water come from?
   a. Geosphere
   b. Biosphere
   c. Cryosphere
   d. Hydrosphere

Module 7.1: Goal-Line Technology

1. When should you redesign?
   a. As you are building the original design
   b. After your beginning research
   c. After collecting data during the test
   d. As you are testing the original design

2. True or False: Engineering designs are always hi-tech.

Grades 3-5

Name: _____

Assessment Questions

Module 8.1: Probability and Penalty Kicks

1. Juan's plenty kick probability is 8/10 and David's is 9/10. Which expression is correct?
   a. David > Juan
   b. Juan > Daivd
   c. Juan = David
   d. David < Juan

2. Who would you prefer to take the penalty kick?
   a. Hope has a probability 6/10
   b. Alex has a probability of 13/20
   c. Maggie has a probability of 14/15
   d. Crystal has a probability of 4/5