

# FIRST AND GOAL

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Measurement Units

For grades 3-5; Groups of 2

## Materials Needed:

The First and Goal game board  
First and Goal cards  
Game pieces (cut from bottom of page)

## How to Construct:

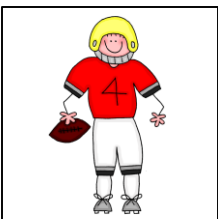
1. Cut off the rules and game pieces.
2. Laminate the game board onto the front of a manila envelope, and the rules on the back of the envelope. Make sure the envelope is open when it is laminated.
3. Laminate the game pieces.
4. Use scissors to slice open the laminate at the opening of the envelope.
5. Store the game pieces in the game board envelope.

## How to Play:

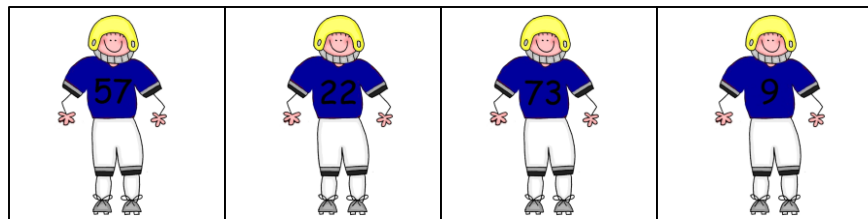
1. One person is the offense. Place the quarterback (the one with the ball) on any dark green square on the bottom row.
2. The other person is the defense. Place one lineman on each dark green square along the top row.
3. Place the cards with the questions facing up beside the game board.
4. The offense goes first. Take a card, read the question out loud, and answer it. Look on the back to check the answer. If the answer is correct, move the quarterback one adjacent dark green square in any direction. Remember the goal is to make a touchdown without being pinned by the linemen. If the answer is not correct, the quarterback does not move.
5. The defense goes next. Take a card, read it out loud, and answer it. Look on the back to check the answer. If the answer is correct, choose a lineman and move him down one space, playing only on the dark green squares. Linemen can only move down, not back up. Only one lineman can move per turn. If the answer is not correct, no lineman may move.
6. Play continues until the quarterback makes a touchdown or until the linemen block him from moving.

## Game Pieces

Offense



Defense



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**TOUCHDOWN!**

A 4x8 grid of alternating green and dark green squares. The numbers 10, 20, 30, and 40 are written vertically on the left and right sides of the grid.

10								10
20								20
30								30
40								40

# First and Goal Measurement Units

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Grades 3-5, Groups of 2

How to Play:

1. Offense is placed on one dark green square along the bottom. Defense covers the dark green squares along the top.
2. Question cards are placed face down beside the game board.
3. In turn, each player picks up the top card, reads the question aloud, and chooses an answer. If correct, the player may move to one connected dark green space. If the answer is incorrect, the player loses the turn.
4. Offense may move forward and backward. Defense may move only one player at a time, and only forward, not backward.
5. The game is over when either the offense scores a touchdown or the defense blocks the offense from moving.

## Teacher Questions to Ask During Play to Guide Learning

1. What are metric units? What are customary units?
2. What units are used to measure mass and weight? Capacity? Length?
3. What answer choices are not possible answers?
4. Are there any other possible answers that are not listed?
5. What tool would you use to measure in that unit?

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## Answer Key

1-D	2-D	3-B
4-D	5-A	6-B
7-D	8-C	9-B
10-A	11-C	12-A
13-C	14-B	15-C
16-D	17-B	18-A
19-B	20-D	

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Which is the best estimate of the weight of a car?

- A. 20 centimeters
- B. 1,000 grams
- C. 200 liters
- D. 2,000 pounds

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Which is the best unit to use to measure the mass of a blue bird?

- A. gallons
- B. grams
- C. meters
- D. kilograms

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Which is the best estimate of the capacity of a drinking glass?

- A. 250 kg
- B. 250 L
- C. 250 m
- D. 250 mL

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Which is the best estimate of the capacity of a coffee mug?

- A. 225 mL
- B. 225 L
- C. 225 kg
- D. 225 m

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<p>Which container holds about 1 liter of water?</p> <p>A. a spoon B. a bottle of water C. a lake D. a bathtub</p> <p>©2006 Education Inspired 6</p>	<p>Which is the best estimate for the capacity of a yogurt container?</p> <p>A. 1 gallon B. 1 meter C. 1 liter D. 1 cup</p> <p>©2006 Education Inspired 7</p>
<p>Which is the best estimate of the weight of a piece of bread?</p> <p>A. 1 pound B. 1 centimeter C. 1 ounce D. 1 kilogram</p> <p>©2006 Education Inspired 8</p>	<p>Which is the best estimate of the weight of a textbook?</p> <p>A. 1 liter B. 1 kilogram C. 1 ounce D. 1 meter</p> <p>©2006 Education Inspired 9</p>
<p>Which is the best estimate of the capacity of a teaspoon?</p> <p>A. 5 milliliters B. 5 liters C. 5 gallons D. 5 pints</p> <p>©2006 Education Inspired 10</p>	<p>Which is the best estimate of the capacity of a mop bucket?</p> <p>A. 1 milliliter B. 1 liter C. 1 gallon D. 1 pint</p> <p>©2006 Education Inspired 11</p>
<p>Which is the best estimate of the length of 5 paperclips?</p> <p>A. 5 inches B. 5 feet C. 1 foot D. 1 meter</p> <p>©2006 Education Inspired 12</p>	<p>Which is the best estimate of the width of a door?</p> <p>A. 1 foot B. 1 centimeter C. 1 yard D. 1 inch</p> <p>©2006 Education Inspired 13</p>

<p>Which is the best estimate of the length of a car key?</p> <p>A. 3 feet B. 3 inches C. 3 centimeters D. 3 yards</p> <p>©2006 Education Inspired 14</p>	<p>Which unit would you use to measure the distance between Dallas and Austin?</p> <p>A. feet B. centimeters C. miles D. kilograms</p> <p>©2006 Education Inspired 15</p>
<p>Which is the best estimate of the length of a football field?</p> <p>A. 100 feet B. 100 centimeters C. 100 ounces D. 100 yards</p> <p>©2006 Education Inspired 16</p>	<p>Which is the best estimate of the length of a pencil?</p> <p>A. 6 feet B. 6 inches C. 6 meters D. 6 gallons</p> <p>©2006 Education Inspired 17</p>
<p>How many feet are in 2 yards?</p> <p>A. 6 feet B. 3 feet C. 2 feet D. 1 foot</p> <p>©2006 Education Inspired 18</p>	<p>How many yards equal 36 feet?</p> <p>A. 18 yards B. 12 yards C. 6 yards D. 8 yards</p> <p>©2006 Education Inspired 19</p>
<p>Which is the best estimate of the mass of a bag containing 3 apples?</p> <p>A. 10 grams B. 1 meter C. 10 feet D. 1 kilogram</p> <p>©2006 Education Inspired 20</p>	<p>Which is the best estimate of the capacity of a kitchen sink?</p> <p>A. 5 foot B. 5 milliliters C. 5 cups D. 5 gallons</p> <p>©2006 Education Inspired 1</p>