

FIRST AND GOAL

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Metric Measurement

For grades 3-5; Groups of 2

Materials Needed:

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

How to Construct:

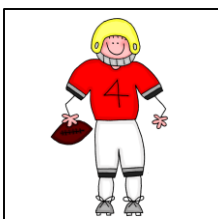
1. Cut off the rules and game pieces.
2. Laminate the game board onto the front of a manila envelope, and the rules on the back of the envelope. Make sure the envelope is open when it is laminated.
3. Laminate the game pieces.
4. Use scissors to slice open the laminate at the opening of the envelope.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

How to Play:

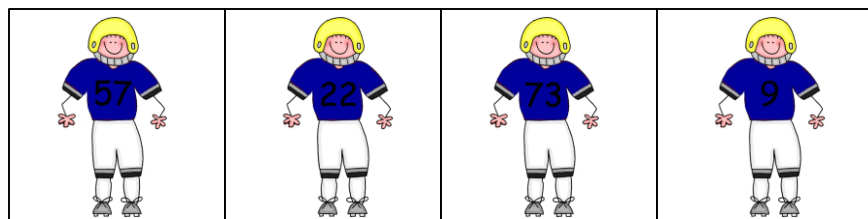
1. One person is the offense. Place the quarterback (the one with the ball) on any dark green square on the bottom row.
2. The other person is the defense. Place one lineman on each dark green square along the top row.
3. Place the cards with the questions facing up beside the game board.
4. The offense 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



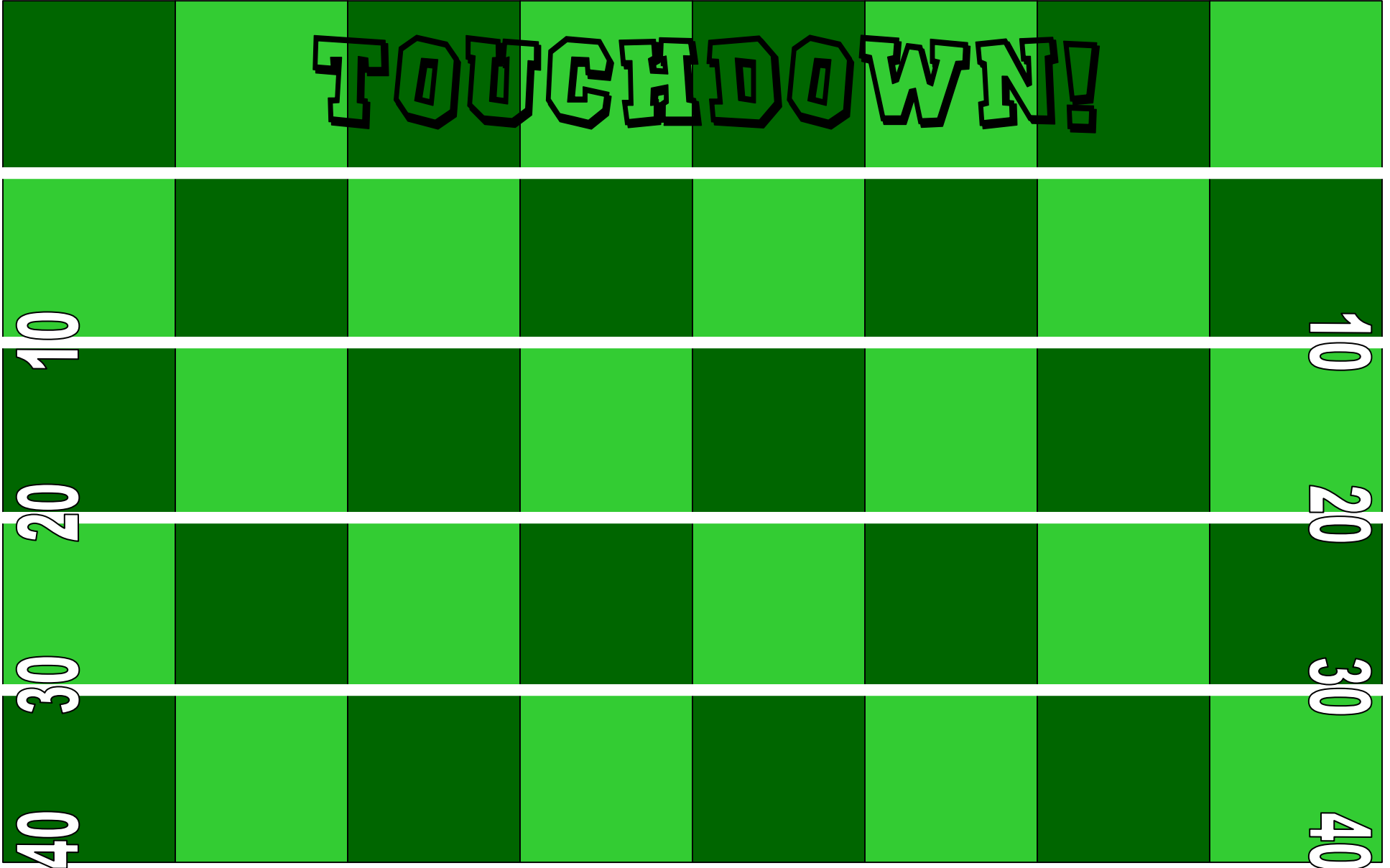
Defense



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TOUCHDOWN!



First and Goal Metric Measurement

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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.

Answer Key

- | | | |
|------|-------|-------|
| 1. A | 8. C | 15. C |
| 2. C | 9. B | 16. A |
| 3. A | 10. C | 17. A |
| 4. B | 11. B | 18. A |
| 5. A | 12. A | 19. A |
| 6. C | 13. B | 20. C |
| 7. C | 14. B | 21. B |

What is a reasonable estimate for the length of a pencil?

- A. 15 centimeters
- B. 15 decimeters
- C. 15 meters

1

What is a reasonable estimate for the height of a door?

- A. 2 centimeters
- B. 2 decimeters
- C. 2 meters

2

What is a reasonable estimate for the temperature on a hot day?

- A. 30°C
- B. 90°C
- C. 10°C

3

How do you measure the temperature of a liquid?

- A. put your finger in it
- B. put a thermometer in it
- C. hold your face close to it

4

How do you measure the mass of an object?

- A. use a balance
- B. hold it in your hand
- C. use a graduated cylinder

5

<p>What tool is used for measuring length?</p> <p>A. thermometer B. meter tape C. balance</p> <p>14</p>	<p>What tool is used for measuring mass?</p> <p>A. graduated cylinder B. meter tape C. balance</p> <p>15</p>
<p>What tool is used for measuring volume?</p> <p>A. graduated cylinder B. meter tape C. balance</p> <p>16</p>	<p>What tool is used for measuring temperature?</p> <p>A. thermometer B. meter tape C. balance</p> <p>17</p>
<p>What standard unit is used to measure length in science investigations?</p> <p>A. meter B. inch C. mile</p> <p>18</p>	<p>What standard unit is used to measure volume in science investigations?</p> <p>A. milliliters B. pounds C. ounces</p> <p>19</p>
<p>What standard unit is used to measure mass in science investigations?</p> <p>A. inch B. pound C. gram</p> <p>20</p>	<p>What standard unit is used to measure temperature in science investigations?</p> <p>A. gram B. Celsius C. milliliters</p> <p>21</p>

<p>About how long is a piece of paper?</p> <p>A. 3 cm B. 30 dm C. 3 dm</p> <p>6</p>	<p>How many centimeters equals 1 meter?</p> <p>A. 50 cm B. 10 cm C. 100 cm</p> <p>7</p>
<p>How many milliliters equals 1 liter?</p> <p>A. 50 mL B. 100 mL C. 1000 mL</p> <p>8</p>	<p>What unit should you use to measure the distance between two cities?</p> <p>A. meter B. kilometer C. decimeter</p> <p>9</p>
<p>What is the amount a container can hold when full?</p> <p>A. mass B. temperature C. capacity</p> <p>10</p>	<p>What tool can be used for measuring and transferring liquids ?</p> <p>A. graduated cylinder B. syringe C. balance</p> <p>11</p>
<p>What can be measured with liters?</p> <p>A. orange juice B. crayons C. cookies</p> <p>12</p>	<p>About how long is a bed?</p> <p>A. 2 cm B. 2 m C. 2 km</p> <p>13</p>