**Short Circuit**

In **Short Circuit**! You will move through a circuit and try to be the first to reach the light bulb. Batteries and short circuits will speed you up but resistors and diodes could slow you down. Have fun!

**Game Play:**
Before you begin, you must decide which path you will take when you get to the “junction” square. One path is shorter but you could lose three turns. The other path is longer but safer.

Each player takes turns drawing numbers and moving forward. When you land on a square read it out loud and follow any instructions. If you land on a “short circuit” square you get to immediately travel through the short circuit path. You must draw an exact number to land on the light bulb and win the game. The first person to reach the light bulb wins!

- **Start Here!**
- **Congratulations!**
- **High Resistance!** Lose 3 turns. The lower the resistance in a path, the more likely current is to choose that path.
- **Low Resistance!** Lose 1 turn.
- **Current Flows Through a Circuit!**
- **Capacitor:** Lose 3 turns while the capacitor charges before moving ahead 7 spaces!
- **Resistors Which Have Resistance Slow Current Down!**
- **Capacitors Store Energy, Then Release It Quickly!**
- **When there is a short circuit, current can skip some resistors.**
- **In 1895, Nikola Tesla built a power plant powered by Niagara Falls.**
- **Diodes Only Allow Current to Flow in One Direction!**
- **The arrow tells which way current is allowed to flow in a diode.**
- **A Battery Gives You Energy!** Move again!
- **Batteries Make Current Flow Faster!**
- **A Battery Gives You Energy!** Move again!
- **Electricity Joke!**
  - **Q:** Why did the light bulbs go out?
  - **A:** Because they liked each other!
- **Resistance is measured in Ohms, named after physicist Georg Ohm.**
- **Did you know that Thomas Edison invented the electric light bulb in 1879?**
- **LOSE 3 TURNS while the capacitor charges before moving ahead 7 spaces!**
- **LOSE 3 TURNS while the capacitor charges before moving ahead 7 spaces!**
- **LOSE 3 TURNS while the capacitor charges before moving ahead 7 spaces!**
- **LOSE 2 TURNS**
- **LOSE 2 TURNS**
- **LOSE 2 TURNS**
- **LOSE 1 TURN**
- **LOSE 1 TURN**

Did you know your brain sends signals to your muscles using electricity?