



Game Design

Learn about probability, how it's used in games, and design your own board game!

Length: About 1-hour

Difficulty: Hard

Supplies You Will Need

- Poster board (or paper taped together)
- Markers or colored pencils
- Dice (dice with different numbers of sides preferred, but not necessary)
- Scratch paper
- Index cards (optional)

ACTIVITY INSTRUCTIONS

1. Watch the video to learn about probability & how to use it in games
2. Think about games you already know how to play. How do they use chance or probability? Are there dice? Spinners? Cards?
3. On your scratch paper, design a game of your choosing. It can be as simple or as complex as you would like.
4. Add probability to your game by adding random elements - this could be dice, cards, etc.
5. Test and improve your games! Engineers always take the time to test, improve, and redesign their products.

