

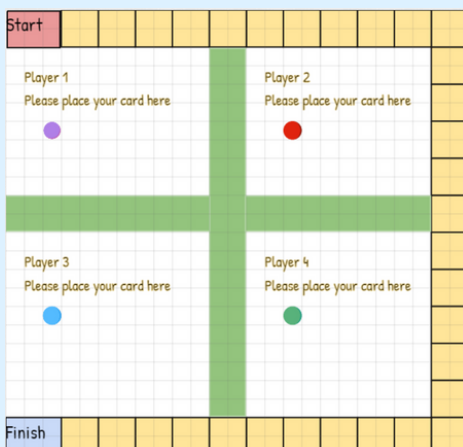
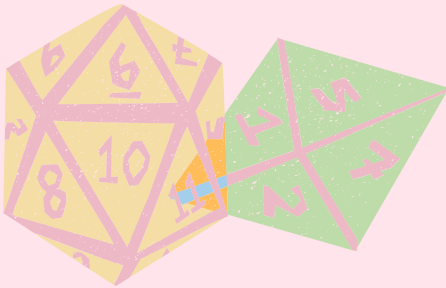
# WHAT MIGHT HAPPEN?

What are mathematical concepts? Mathematical concepts are abstract and complex. However, mathematical concepts may occasionally become engaging and vivid. Probability is a mathematical concept. It is a measure of the likelihood of something occurring. While it may sound difficult and abstract, we utilize it on a daily basis. “The probability of tomorrow is a rainy day is 90%”, “Dad is likely to go out this afternoon”, a probability implied in the sentences we utter every day. Hence, in order to encourage the students to demonstrate their understanding of the probability concepts, we created a game for students to create and manipulate their own probability.

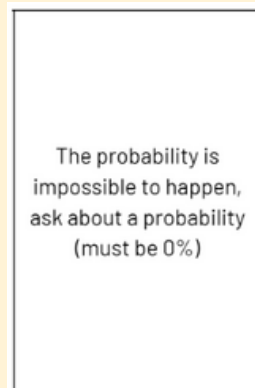
NUMBER OF PLAYERS: 2-4  
PLAYING TIME: 25MIN  
AGE RANGE: 11+

## COMPONENTS

40 Probability cards  
80 Elements Cards  
64 Ability Cards  
Game Board  
4 Player Tokens  
4 to 10 sided Dices, one for each



## PROBABILITY CARDS



- What will appear on the card:
  - A random Fraction, Percentage, Decimal Number, or Likelihood will appear on the card
  - How to ask about the probability will appear on the card
- A Probability Card has two states, **Activate** and **Deactivate**.
- The Probability Card is **Deactivated** when it is drawn from the deck.
  - When the probability card is **Deactivated**, the player has to construct a random event that represents the probability.
  - The player then has to use ask about the probability based on the indication on the card.
- The Probability Card is **Activated** when it is won from the other player.
  - When the probability card is **Activated**, the probability on the card reflects the player's chances of receiving an ability card.
  - The **Activated** Probability Card will be discarded if the player decides not to use it in his turn.

# WHAT MIGHT HAPPEN?

## ELEMENTS CARDS

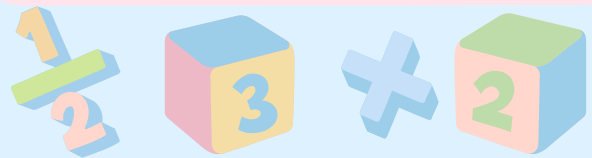


- Elements Cards will serve as hints. Players need to come up with a random event using the elements cards. There are four types of Elements Cards.
  - Environment Cards: Described the setting of the random event
  - Festival Cards: Described the action that happened in the random event
  - Character Cards: Described the main character of the random event
  - Object Cards: Described the object in the random event
- All four types of cards will be put in one element cards deck.

## ABILITY CARDS

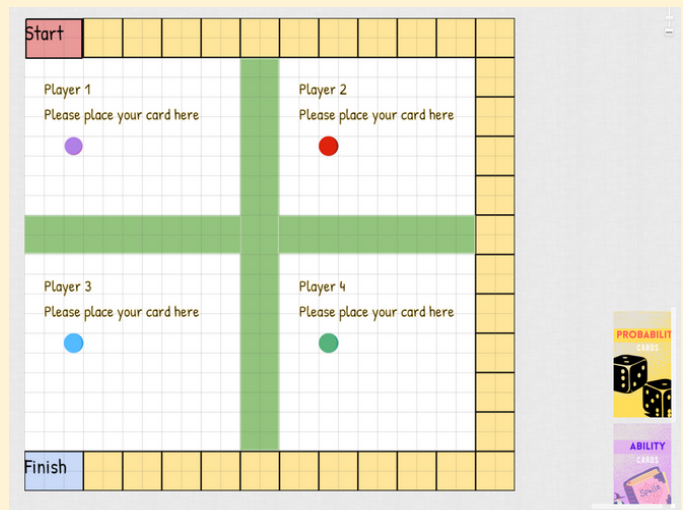


- The Ability Cards are used for players to gain advantages on the board.
- There are 24 types of Ability Cards.
- The Ability Cards are divided into two sections. The upper section describes the affected range, and the lower section describes the movement.
- The Ability Card can only be drawn when an Active Probability Card has been used.



## SETTING UP THE GAME

- Shuffle the Probability Cards, the Elements Cards, and the Ability Cards.
- All players roll six-sided dice.
- The player who gets the largest number will go first. If players roll equal maximums, the players with equal numbers reroll the dice until a size is determined.
- The game goes clockwise.
- All players are required to choose a player token to represent themselves.
- Place the token at the starting position of the game board.



# WHAT MIGHT HAPPEN?

## TURN OVERVIEW

Each player takes a turn until the game is completed. A player's turn consists of the following **Five** basic actions:

1. The player rolls a **six-sided dice** and moves the token on the board according to the number rolled.
2. The player then draws one **Probability Card** and two **Elements Cards**.
3. The player needs to come up with a random event using the **Probability Cards** and the **Elements Cards** in their hand.
4. After that, ask the next player about the probability of the random element.
5. If the next player gets the probability right, give the **Probability Card** to the next player.
  - a. If the next player gets the probability wrong, the player will reserve the **Probability Card**.
  - b. If the player fails to come up with a good random event with the desired probability, the player will lose this round. The **Probability Card** in the player's hand will go back into the deck.

## WIN CONDITION

The first player who moves to the endpoint on the board will win the game.

## THE ACTIVATED PROBABILITY CARD

The **Probability Card** gained after describing a random event will become **Active**. Place the **Activated Probability Card** on the board. One who has an **Activated Probability Card** on the board can use the card to draw the **Ability Card**. Additional actions before the basic actions if an **Activated Probability Card** is in one's hand:

### Decide

The player needs to make a decision based on the **Activated Probability Card** he or she gets.

1. **Decision 1:** To roll a dice and move as a normal round
2. **Decision 2:** To use the **Activated Probability Card** to get the special bonus.
  - a. **Roll a Dice:** The player can roll a dice based on the **Probability Card**. If the **Probability Card** is 90%, then the player will need to roll a ten-sided dice. If the player gets any number between 1 to 9, then the player will be able to draw an **Ability Card**.
  - b. **Move:** After drawing the **Ability Card**, the player can utilize it to influence the **Token's** placement on the board.

The **Ability Card** and the **Activated Probability Card** can not be stored. If the player decides not to use the cards, the cards will be discarded.

## GAME END

The game will end when one player reaches the endpoint.

