## Blake Zanidean



## Set (Engagement): Introduction <br> Length of Time: 15

min
-Divide class into 4 groups (do this based on the number of available staff able to help)
-Explain to students the objective is to be the team with the most points at the end
-Explain the payouts for each game (Coin flip 5, Dice roll 10, Pick a Card 20, Roulette(Color 5, Number 20))

- Give students time to strategize about the best way for their team to accumulate the most points.

Development: Game Time
Time: 25
-Have Teachers/EA/Interns each run one station and allow students to approach and try their luck. Have students rotate stations every 8 min.

- Get teachers to track \# of wins and losses, get students to do the same.
- Rotate through each student in a group before a student gets to try playing again.
-Walk around and ask students which games they are enjoying, which they have been most successful at.


## Closure:

Time: 10

- Bring Students back into their groups and tally the number
- Ask students which game they enjoyed most
- Which games seemed to have a higher probability of winning theoretically? Did that seem to correlate with your personal numbers?
- How is probability related to real world issues?

Materials/Resources:

- Dice
- Cards
- Coins
- Roulette Table
- VNPS
- Fake Money / Chips


## Possible Adaptations/

Differentiation:

- Implement different games of probability that you have access to.
- Using something rather than money or chips to take away a dollar value.
- Increase the probability of the games to increase the difficulty (Sum of Dice being rolled, guessing color, then suit, then higher or lower, guessing sequence of coin flips)
- Use cross-curricular connections to talk about addictions with gambling (Probability)

Management Strategies:

Safety Considerations:

- the resemblance of gambling may make some students feel uncomfortable.
- Only let teachers handle the die, cards, etc. to minimize contact of surfaces.

Professional Development Goal is...

- Interact with students and ask them thought provoking questions. Try to get them to make connections to real world scenarios aside from gambling.

