## Fair vs. Unfair Dice - Probability Worksheet

Name:	 	_	
Date:	 	_	
Instructions:			

- 1. Use a fair D6 and an unfair or simulated 'loaded' D6 from https://FreeOnlineDiceRoller.com.
- 2. Roll each die 60 times.
- 3. Record and compare the frequency of each outcome.
- 4. Use the table below to track your results.
- 5. Discuss whether the data suggests the die is fair or unfair.

Face	Fair Die Tally	Fair Total	Unfair Die Tally	Unfair Total
1				
2				
3				
4				
5				
6				

## Discussion:

- What differences did you observe between the two dice?
- What makes a die fair or unfair?
- Can you calculate the theoretical probabilities for a fair D6?
- How might unfair dice affect games and outcomes?