



Recommend reading through your CC Foundations guide and watching the tutor tutorials saved on my YouTube Week 23 playlist. Once you have an idea of how the experiment works, then these worksheets will help assist you in gathering the data. I put mine in clear protectors and write with an erasable marker. The kids used pencils to fill out their forms.

Worksheets Included:

- **Coin Toss**

- Class Data where you will write everyone's results on one paper
- Student worksheet — distribute to the kids in pairs to complete the coin toss and tally their results. You will write their results on your class data form
- Example — to show how the forms could possibly be filled out

- **Die Roll**

- Class Data to fill in together. The class will be split in two. One group will desire 1, 2, and the other will desire 3,4,5,6
- Example — worksheet to show how the form could possibly be filled out

Interesting Odds:

- Getting struck by lightning — 1:1.2 million each year.
- Winning a lottery jackpot — 1:292.2 million
- Getting hit by a meteorite — 1:74,817
- Finding a pearl in an oyster — 1:12,000
- Being hurt by a toilet — 1:10,000
- Attacked by a shark — 1:11.5 million
- Getting a shiny Pokemon Go Card — 1:400

CYCLE 3: WEEK 23

ODDS & PROBABILITY — CLASS DATA



	Heads Winning: Probability 1/2 Odds 1:1	Tails Winning: Probability 1/2 Odds 1:1
Class Practice 12x		
Group 1 12x		
Group 2 12x		
Group 3 12x		
Group 4 12x		
Group 5 12x		
Total		

CYCLE 3: WEEK 23

ODDS & PROBABILITY — RESULTS



Probability	Desired Outcome	
	Total Number of Outcomes	



Odds	$\frac{\bullet}{\bullet}$	
	Desired Outcome	$\frac{\bullet}{\bullet}$ Non-Desired Outcome

Student Worksheet



Coin Toss 12x		
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Probability Results	Number of Heads	Number of Tails
	Total # of flips	Total # of flips



Coin Toss 12x		
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Probability Results	Number of Heads	Number of Tails
	Total # of flips	Total # of flips

Student Worksheet



Coin Toss 12x		
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Probability Results	Number of Heads	Number of Tails
	Total # of flips	Total # of flips



Coin Toss 12x		
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Probability Results	Number of Heads	Number of Tails
	Total # of flips	Total # of flips

CYCLE 3: WEEK 23

ODDS & PROBABILITY — EXAMPLE



	Heads Winning: Probability 1/2 Odds 1:1	Tails Winning: Probability 1/2 Odds 1:1
Class Practice 12x	4	8
Group 1 12x	5	7
Group 2 12x	6	6
Group 3 12x	8	4
Group 4 12x	6	6
Group 5 12x	8	4
Total	37	35

CYCLE 3: WEEK 23

ODDS & PROBABILITY — EXAMPLE



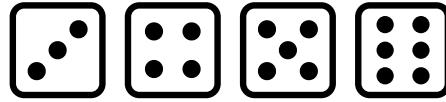
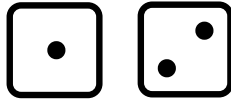
Probability	Desired Outcome <i>(Heads or Tails)</i>	37	51.3%
	Total Number of Outcomes <i>(Total # of coin tosses)</i>	72	



Odds	37 • 35 •
	Desired Outcome • Non-Desired Outcome <i>(heads or tails)</i> • <i>(# of non-selected choice)</i>

CYCLE 3: WEEK 23

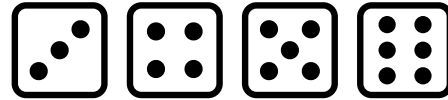
ODDS & PROBABILITY — CLASS DATA



Roll Dice 12x	
Group 1 (1 or 2)	Group 2 (3, 4, 5, or 6)

Probability	Desired Outcome <i>(Results from Group 1 or 2)</i>		%
	Total Number of Outcomes <i>(Total # of rolls)</i>		

Odds	● ●	
	Desired Outcome <i>(Results from Group 1 or 2)</i>	● ● Non-Desired Outcome <i>(Results from opposing group)</i>



Roll Dice 12x	
Group 1 (roll 1 or 2) Winning: Probability 2/6 Odds 2:4	Group 2 (3, 4, 5, or 6) Winning: Probability 4/6 Odds 4:2
4	8

Probability	Desired Outcome <i>(Results from Group 1 or 2)</i>	4	17%
	Total Number of Outcomes <i>(Total # of rolls)</i>	12	

Odds	4	:	8
	Desired Outcome <i>(Results from Group 1 or 2)</i>	:	Non-Desired Outcome <i>(Results from opposing group)</i>