Name:_____ # _____ Date: _____

Probability and Graphing Activities

Chapter 11: Probability; Year Long Projects Revisited

Click on the **Probability Activity**

Click the lever to pick a random ball. Then click Reset balls. In 12 'picks,' how many times is each color picked?

Yellow ball	Red ball	Blue ball	Total

What do you notice about the number of balls in the machine and the number of balls that were chosen? Use probability words like likely, certain, unlikely, impossible, even chance, etc.

_____

_____

Click on the **Probability Fair Game**

On the spinner, which color probability (answer) has the best chance of being landed on? Why do you think so? _____

_____

_____

What is the fraction of the color you chose?

_____ out of _____

Click on the **Probability as a Fraction Game**

Click on the **Probability Fair Game**

Listen to the instructions about probability as a fraction. Play the game. Write one probability sentence below. Example: The probability of choosing a caramel out of all the candies is 2 out of 9 or 2/9.

_____

_____

Go to the **Math Playground Online Spinner** website.

Use the spinner that shows up on your screen. You should see five (5) equal parts (red, green, yellow, purple, and orange). Spin the spinner 10 times and tally your results.

Red	Green	Yellow	Purple	Orange

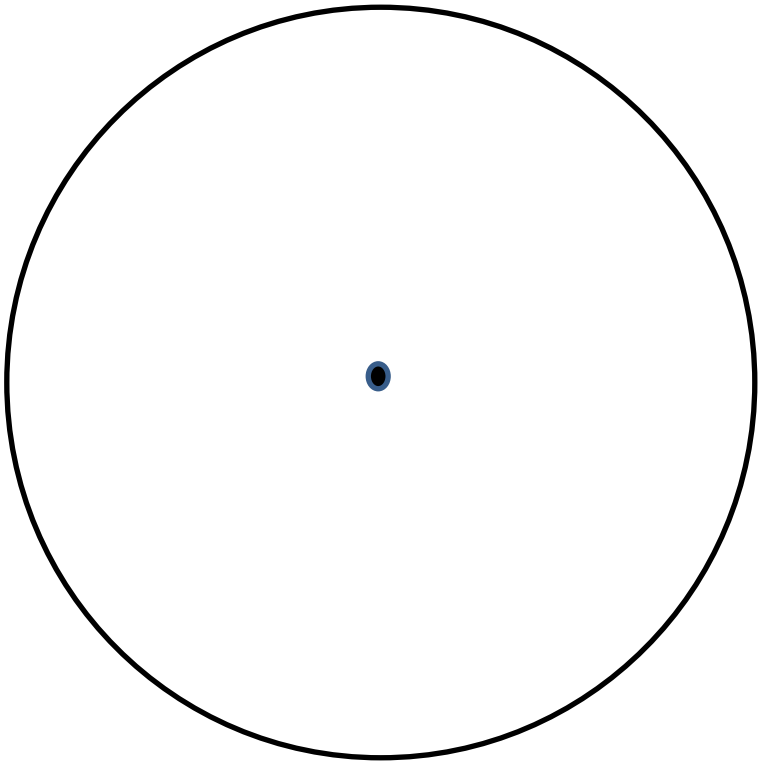
Were the sections (colors) equal? What did you notice about your results (compared to the size of the color sections)?

_____

_____

This time click on the **Change Spinner** button and change the section sizes and colors. You must have at least 4 sections, but

they do not have to be equal. When you have the spinner how you like it, hit “Apply.” Draw and label your spinner below.



Key

Spin the spinner 10 times and record your results. Use a tally chart.

Go to one of the **Coin Flipping** websites. Choose to flip one coin 10 times. On the next page, show the results using a tally chart.

What would happen if you flipped your coin 20 times? How many heads?_____ How many tails?_____

What if you flipped your coin 50 times?

How many heads?_____ How many tails?_____

What if you flipped your coin 100 times?

How many heads?_____ How many tails?_____

Coin Flipping Chart for 10 Flips

Heads	Tails

Design your own coin flipping experiment and explain it. Show your results. Why do you think it worked out this way?

_____

_____

_____

_____

_____