Activity 9 Assessment Conducting Experiments

Making Predictions and Conducting Experiments				
Makes predictions and performs experiments.	Performs experiment, records results, and compares predictions to results. <u>1 2 3 4 5 6</u> <u>11 111 111 1 ## ##</u> "If I roll a number cube 20 times, I expect to roll each number about 3 times. The results weren't close to my predictions because I only rolled a 4 once."	Knows that with more trials, the closer the actual results may be to predicted results.	Performs experiments, analyzes results, and compares and justifies predictions. "The probability of drawing a 6 or a 7 is $\frac{5}{6}$. So, when I conduct the experiment 60 times, I would expect to get a 6 or 7 about 50 times. I got 6 or 7 forty-four times. I have to do more trials."	
Observations/Documentation				

Activity 9 Assessment Conducting Experiments

Theoretical Probability of Independent Events				
Predicts likelihood of favored outcomes based on personal preferences or experiences.	Represents probability using words/fractions and predicts the likelihood of future events.	Represents probability using 'odds in favour' and predicts likelihood of future events.	Fluently makes and justifies predictions about the likelihood of future events.	
			"Knowing the likelihood of events can help me make decisions in real life. For example, weather forecasts are created by comparing the likelihood of different weather conditions."	
"I think I will get the blue marble because last time I got	"I think I will get a blue marble	"The probability of getting a red		
a blue marble."	because $\frac{6}{12}$ or $\frac{1}{2}$ of the marbles	marble is $\frac{1}{4}$. The probability of not		
	are blue."	getting a red marble is $\frac{3}{4}$.		
		The 'odds in favour' of a red marble are 1:3. It is not likely that I will get a red marble."		
Observations/Documentation				