Name: Hour: Lesson 2.2: Predicting Shape				
Complete each of the following experiments and submit your answers using the google form. Resubmit your answers for a total of 3 submissions. Predict (sketch) what the graphs of the class data from each experiment will look like if we did this many many times. Draw and label lines where you predict the mean and median will be.				
Experiment 1: Roll a die and record the value it lands on. 1st roll: 2nd roll: 3rd roll: weight. Prediction: Actual: Actual: 2 3 4 5 6				
Experiment 2: Try to toss a penny and make it land on the target. Measure the distance of the penny from the target in cm. Round to the nearest tenth. 1st Attempt: 2nd Attempt: 3rd Attempt: Skewed				
Prediction: Actual: Mean Zmed.				
Experiment 3: Try to stop your stopwatch at exactly 5 seconds. Record what the stopwatch reads below. Record to the hundredths place. 1st Attempt: 2 nd Attempt: 3 rd Attempt: Actual:				
Normal Curves: Label the values 1, 2, and 3 standard deviations above and below the mean using the stopwatch data. $\bar{\chi} \approx \mu = 5$ $S \approx \sigma = 1.39$				
What percentage of the data is within two standard deviations of the mean? 95%.				
What percentage of the data is further than two standard deviations from the mean? 5./.				

What percentage of the data is greater than 1 standard deviation above the mean? 16./.

What percentage of the data is between z = -1 and z = 2?

81.5%

Na	me:	Hour:		
	Lesson 2.2 – Density (Curves and Normal I	Distributions	
Big Idea	Density Curves Skur	#2 symmetric: wright mean a edemean median	15 13 34 34 Normal 15 13 34 34 Curve	
Uniform > [L N	ed >mean	4-30 M-0 M Mto M +30	
	Check You 1. An Internet reaction time test as a light flashes on the screen selected time after the subject amount of time the subject has a. What height must the density your answer. Atta = 1: b. About what percent of the time more than 3.75 seconds after "Start"? Width = 5-3 C. Calculate and interpret the 38	our Understanding: asks subjects to click their modern. The light is programmed to it clicks "Start." The density cures to wait for the light to flash. curve have? Justify \(\frac{4}{4} \times \frac	ime (sec) until the light flashes n. 1 Second start = 2.52 approximately	
	b. About what percent of young	ne points that are 1, 2, and 3 s N(64.5, 2.5) Women have heights less that 3.5 + 0.15) = 97.5 3.5 + 34 + 34 + 1	in 69.5 inches? Show 5 /. 3.5 = 97.5 /.	