test out wheels and the	s about how the type of wheel t three different types of wheel to have more grip (friction) or erefore the least amount of fric	s. He starts with his current went them. The final wheels he trition. He tries the same trick 10	heels. Then he changes the es has the smoothest surface times with each wheel type.	
scienti	o makes sure to use the same be fic he even makes sure to have r of times he lands the trick pe	the same weather conditions.		
Testab	le Question:			
Indepe	endent Variable:			
Levels				
Trials				
Depen	dent Variable:			
Consta	ant/Controlled Variable:			
Scenario #2: Isabella is studying for a big test she has coming up. She is curious about how the method of studying affects the grade she might earn. She decides to test out three different types of study methods on her friends. All of her friends were given the same Math vocabulary and problems to learn and she made sure all of them had never seen this information before. She asked friend #1 to use flash cards to study. Friend #2 used a computer game to study. Friend #3 re-read the notes. Isabella gave them the same test to take and recorded the number of correct answers.				
Testab	le Question:			
Indepe	endent Variable:			
Levels				
Trials				
Dependent Variable:				
Consta	ant/Controlled Variable:			

Name_____ Class___ Date____

Scenario #1: Kenny loves skateboarding and is entering a competition in a few months. He is

Even MORE IDD Practice!

Name_		Class_	Date
sure to of bat thow far	io #3: Shawn enjoys playing be hit a home run when he is up hey use during games. Sean dear he hits the ball with each type of ball, and try his best to lach bat.	at bat. His baseball league lets ecides to test out 3 different ty e of bat: wooden, aluminum, a	the players choose the type pes of bat. He will measure and composite. He will use the
Testab	le Question:		
Indepe	endent Variable:		
Levels			
Trials			
Depen	dent Variable:		
Consta	ant/Controlled Variable:		
memor experir of num in the c cousin	io #4: Ms. Salvaggio just had by. In order to determine whether to the saks her family ment ber to memorize for 1 minute. Correct order. She asks her grant who is 7 to participate. She realle Question:	er age has an affect on memorabers to participate in her expensions. She then gives them 10 second admother, her sister who is 5 years.	ry, she decides to conduct an eriment. She gives them a list ds to repeat back the numbers rears younger than her, and her
	endent Variable:		
Levels			
Trials			
Depen	dent Variable:		
Consta	nnt/Controlled Variable:		

Name	Class	Date	
------	-------	------	--

Even MORE IDD Practice!

Scenario #1: Kenny loves skateboarding and is entering a competition in a few months. He is curious about how the type of wheel affects his ability to perform a difficult trick. He decides to test out three different types of wheels. He starts with his current wheels. Then he changes the wheels to have more grip (friction) on them. The final wheels he tries has the smoothest surface and therefore the least amount of friction. He tries the same trick 10 times with each wheel type. He also makes sure to use the same board and perform the trick in the same location. To be extra scientific he even makes sure to have the same weather conditions. He has a friend record the number of times he lands the trick perfectly.

Testable Question: How does the type of wheel affect his ability to land a trick?					
Independent Variable: CHANGE the type of wheel					
Levels	current	more friction	smooth (less friction)		
Trials	10	10	10		
Dependent Variable: COUNT the number of times he landed a trick					
Constant/Controlled Variable: same board, same location, same weather conditions					

Scenario #2: Isabella is studying for a big test she has coming up. She is curious about how the method of studying affects the grade she might earn. She decides to test out three different types of study methods on her friends. All of her friends were given the same Math vocabulary and problems to learn and she made sure all of them had never seen this information before. She asked friend #1 to use flash cards to study. Friend #2 used a computer game to study. Friend #3 re-read the notes. Isabella gave them the same test to take and recorded the number of correct answers.

Testable	=	t of the type of study method	on the number of correct		
Independent Variable: CHANGE the type of study method					
Levels	flash cards	computer game	re-reading notes		
Trials	1	1	1		
Depend	ent Variable: COUNT the nur	nber of correct answers			
Constar	nt/Controlled Variable: SAME	math vocabulary, same to	et		

Name	Class	Date	
------	-------	------	--

Scenario #3: Shawn enjoys playing baseball. He has a big game coming up and he wants to make sure to hit a home run when he is up at bat. His baseball league lets the players choose the type of bat they use during games. Sean decides to test out 3 different types of bat. He will measure how far he hits the ball with each type of bat: wooden, aluminum, and composite. He will use the same type of ball, and try his best to hit the ball with the same force. He will hit 15 baseballs with each bat.

with ea	en bat.				
Testable Question: What is the effect of the type of bat on how far he is able to hit the baseball?					
Independent Variable: CHANGE the type of bat					
Levels	aluminum	composite	wood		
Trials	15	15	15		
Dependent Variable: MEASURE how far he is able to hit the baseball					
Constant/Controlled Variable: SAME type of ball					

Scenario #4: Ms. Salvaggio just had birthday and she is concerned about the decline of her memory. In order to determine whether age has an affect on memory, she decides to conduct an experiment. She asks her family members to participate in her experiment. She gives them a list of number to memorize for 1 minute. She then gives them 10 seconds to repeat back the numbers in the correct order. She asks her grandmother, her sister who is 5 years younger than her, and her cousin who is 7 to participate. She records the accuracy with which they repeat the words numbers to her.

Testable Question: How does the age of the participants affect the accuracy with which the numbers are repeated back?					
Independent Variable: CHANGE the age of the participants					
Levels	grandmother	sister	cousin		
Trials	1	1	1		

Dependent Variable: **MEASURING the accuracy with which the numbers are repeated back**

Constant/Controlled Variable: **SAME list of numbers**

Name	Class	Date	
------	-------	------	--

Use this chart from our classroom to help you recognize the variables AND to help you write your answers in the boxes-the words CHANGE, MEASURE, and SAME can be used to start your answers! This may help you!

