## Circular Motion and Gravitation Notebook - Scoring Rubric

Your notebook will be collected at the end of class on  The following items should be in your notebook. They should be clearly organized and easy to find. Use an organizational system and label all work. Each lab will be graded separately. Ten Circular Motion and Gravitation lab grades will be entered into the gradebook. An overall notebook grade will be determined based on your use of the notebook as an organized and effective record-keeping tool which documents your engagement in the learning cycle during classtime and labtime.  Name: Period:			
Item		Score	
CG1.	Making the Turn Lab Included, labeled and organized all parts of the lab report. Data section includes an organized record of the relevant observations using both words and a diagram. Conclusion/Discussion answers the <i>question</i> posed in the Purpose; evidence which supports such a conclusion is cited and discussed.	/3 (Lab score)	
CG2.	Loop the Loop Lab Included, labeled and organized all parts of the lab report. Data section included a clear and accurate observations of the relative strength of the tension force for top and bottom positions along a vertical loop. Conclusion/Discussion accurately answers the <i>question</i> posed in the Purpose. Post-lab questions were included and answered accurately and completely; FBDs were properly constructed with labeled forces; work was shown on calculations.	/5 (Lab score)	
CG3.	Race Track Lab Included, labeled and organized all parts of the lab report. Data section includes the instructor's initials indicating a successful completion of the simulation; may include other information. Conclusion/Discussion describes the elements of a successful strategy, explicitly referencing Newton's second law of motion and vector principles; accurately and thoroughly explained how to negotiate a turn.	/4 (Lab score)	
CG4. 	The Great Mass Attraction Simulation Included, labeled and organized all parts of the lab report. Data section includes the provided sheet with all questions answered. Vector arrows reflect relative magnitude and direction; data are reasonably accurate; answer to questions are correct. Conclusion/Discussion accurately and thoroughly describes the three variables which effect the gravitational force, including both qualitative and quantitative information.	/4 (Lab score)	
CG5.	Included, labeled and organized all parts of the lab report. Purpose section includes a succinctly worded statement which clarifies the intention of the study.  Description of Study section describes details related to how the study was conducted. Independent and dependent variables are discussed. The procedure used was related to the purpose.  Data section identifies the input variables for all trials; units are stated.  Reasonable values were used for all inputs. Relevant output variables are clearly stated in an organized fashion. Included a relevant trajectory plot and at least one other plot for each trial.  Conclusion/Discussion provides the answer to the question posed in the Purpose. Answer is relevant to the purpose and reasonable. Evidence which supports the conclusions are discussed in a rational manner.	/12 (Lab score)	

<ul> <li>Data section includes p and accurate; vector arr</li> <li>Conclusion/Discussion of the v and the F<sub>net</sub> cha</li> <li>The direction of these to</li> </ul>	organized all parts of the lab report. rovided diagram and questions; answers are complete rows are labeled. In thoroughly and accurately describes how the magnitude ringe (or don't change) during the course of an orbital path. It wo vectors relative to each other is also discussed. Intelligent understanding.	/5 (Lab score)
<ul> <li>Included, labeled and of Data section includes the are indicated; at least of Conclusion/Discussion the supporting evidence</li> </ul>	organized all parts of the lab report. The provided table with the last column completed; units one sample calculation is clearly shown and labeled. The answers the <i>question</i> posed in the Purpose and describes the column to the purpose and the purpose and describes the column to the purpose and the p	/3 (Lab score)
<ul><li>Data section includes the are indicated; at least or</li></ul>	organized all parts of the lab report. The provided table with the last column completed; units the sample calculation is clearly shown and labeled. The answers the <i>question</i> posed in the Purpose and describes	/3 (Lab score)
<ul> <li>Data section includes the one sample calculation days to kg is clearly deaper.</li> </ul>	organized all parts of the lab report. The provided table with the last column completed; at least is clearly shown and labeled; conversion from km and monstrated. The answers the question posed in the Purpose and describes	/4 (Lab score)
<ul><li>Data section includes a three phases of its fall;</li><li>Conclusion/Discussion three indicated phases</li></ul>	of its motion; discussion is clear. Newton's second law is the conditions of the motion (at rest, free falling, etc.) to	/4 (Lab score)
post-lab sections, textbo questions are provided scientist/student in bot with little evidence of in used the notebook to do	Record-Keeping Tool d use the notebook to record notes from class lectures, book readings, etc. Answers and discussions of opening . The notebook is a record of the involvement of a th class and lab. A blank or even sparsely-used notebook nvolvement in class is not a sign of a student who has ocument and record their involvement in class. A diligent ecords which subsequently become an effective and useful	/10 (HW score)