

**Physics: Unit C Portfolio (4%)****Name:***Please include the following items in the order specified. Use this sheet as a cover for your package.***Part I (Circular Motion/Kepler)**

- \_\_\_\_\_ (5) Any five (5) questions Circular Motion: Exercise C1 # 1 – 8 and/or Ch 6: #61 – 67, 78, 80, 88
- \_\_\_\_\_ (2) Any two (2) questions (Kepler’s Laws) Chp 7: #52, 61-63, Challenge Problem p.176

**Part II (Gravitation)**

- \_\_\_\_\_ (3) Any three (3) questions from NLUG: Exercise C2 #1 – 5 and/or Chp 7: #59, 64, 65,
- \_\_\_\_\_ (2) Any one (1) question from NLUG: Exercise C2 #6 – 8
- \_\_\_\_\_ (2) Any two (2) questions from Motion of Satellites: Exercise C3 and/or Chp 7: #71
- \_\_\_\_\_ (3) Any three (3) questions from Gravitational Fields:  
Exercise C4 #2 – 5 and/or Chp 7: #73 – 77, 86

**Part III**

- \_\_\_\_\_ (5) *Effort*  
Section Review, Mastering Concepts, Applying Concepts, and Practice Problems are designed to practice skills, reinforce concepts and make connections between science and society. An effort grade will be assigned based on the number of these questions successfully completed. **\*Questions used from the sections above may not be used for this category. Correct answers may be necessary to receive full marks.**

<i>Number of Questions</i>	<i>Score</i>	<i>Number of Questions</i>	<i>Score</i>
<i>≥15</i>	<i>5</i>	<i>7 – 8</i>	<i>2</i>
<i>12 - 14</i>	<i>4</i>	<i>5 – 6</i>	<i>1</i>
<i>9 - 11</i>	<i>3</i>	<i>0 – 4</i>	<i>0</i>

- \_\_\_\_\_ (3) *Organization and Appearance*

Description	Score
Portfolio is handed in on time; communication is neat and shows complete reasoning and full process (including formulas, units, and rounded final answers)	3
Portfolio is handed in on time; communication shows incomplete reasoning and process is weak in one key area (neatness, units, rounded answers, formula/set-up, etc.)	2
Portfolio is handed in on time; communication shows incomplete reasoning and process is weak in two key areas (neatness, units, rounded answers, formula/set-up, etc.)	1
Portfolio is late OR communication shows incomplete reasoning and process is weak in all areas.	0

- \_\_\_\_\_ (5) Problem of the Week – Outline the work of Henry Cavendish, primarily his experimental work in determining the value of G. Outline this experiment and discuss his analysis that led to a numerical value for G

- \_\_\_\_\_ (30) Total