**ICP MIDTERM REVIEW BOOK**

You will create a review book that will address all the topics that have been covered in the class.

1. You will take sheets of blank white paper and fold them in half. Number each page on the bottom outside corner. Counting the cover page you will have numbered pages.

2. Using the rubric below fill in the information required. Everything should be hand written and hand drawn.

3. Color MUST be used. Keep in mind Marker Pens BLEED through the pages so you may not want to use them unless you take special precautions.

4. There will be three graded checks on your progress:

 **Pages 1-6 Thursday, January 7**

 **Pages 7- 13 Thursday, January 14**

 **Final Book DUE the day you take the midterm (Pd1-19th, Pd 2-20th, Pd 5 and 6-22nd)**

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| **Page** | **Content** | **Points** |
| 1 | **Cover Page:*** Name and Period
* Quarter 1 picture/diagram
* Quarter 2 picture/diagram
 | \_\_\_ / 3 |
| 2 | **Chapter 1:*** Define Scientific Notation and Metric Conversion
* List the requirements for all graphs
* List and illustrate three important parts of lab safety with explanation
 | \_\_\_ / 3 |
| 3 | **Chapter 11.2:*** Define speed and velocity
* A picture that demonstrates instantaneous speed with explanation
* Define constant speed
 | \_\_\_ / 3 |
| 4 | **Chapter 11.2 (continued):*** Define average speed
* Write the speed equations
* Distance Time graph
* Illustrate the difference between speed and velocity with explanation
 | \_\_\_ / 3 |
| 5 | **Chapter 11.3:*** Define acceleration
* Illustrate acceleration with description
* Show an example of positive and negative acceleration
 | \_\_\_ / 3 |
| 6 | **Chapter 11 Review:*** Illustrate the slope of a line
* Acceleration equations
* An illustration of any topic from the chapter with explanation
 | \_\_\_ / 3 |
| 7 | **Chapter 12:*** List the types of friction
* How are gravity and air resistance linked
* Illustrate three types of friction with explanation
 | \_\_\_ / 3 |
| 8 | **Chapter 12:*** Define friction
* Define force
* An illustration demonstrating force or friction with explanation
* Parts of a vector / force diagram and how to calculate net force
 | \_\_\_ / 3 |
| 9 | **Chapter 12:*** Define gravity
* Describe the impact of gravity and mass
* An illustration of gravity in action with explanation
 | \_\_\_ / 3 |
| 10 | **Chapter 12:*** Describe Newton’s First law
* Define inertia
* An illustration showing he First Law with explanation
 | \_\_\_ / 3 |
| 11 | **Chapter 12:*** Describe Newton’s Second Law
* Describe the relationship between mass, force and acceleration
* An illustration showing the Second Law with explanation
 | \_\_\_ / 3 |
| 12 | **Chapter 12:*** Describe free fall acceleration
* Define weight and mass
* An illustration showing the relationship between mass, gravity and weight with explanation
 | \_\_\_ / 3 |
| 13 | **Chapter 12:*** Describe Newton’s Third law
* Define the importance of equal and opposite reactions
* An illustration demonstrating the Third Law with explanation
 | \_\_\_ / 3 |
| 14 | **Chapter 12:*** Define momentum
* Describe the relationship of mass and momentum
* An illustration showing momentum with explanation
 | \_\_\_ / 3 |
| 15 | **General Stuff:*** Be creative and colorful while listing the equations for speed and velocity
 | \_\_\_ / 3 |
| 16 | **More Stuff:*** Have fun showing the various equations for force
 | \_\_\_ / 3 |
| 17 | **Still More Stuff:*** Choose any three topics covered in the first quarter and create a unique way to explain them
 | \_\_\_ / 3 |
| 18 | **Last Page Stuff:*** Choose any three topics covered in the second quarter and create a unique way to explain them
 | \_\_\_ / 3 |
|  | **Pages and workmanship show final draft quality.** | \_\_\_ / 5 |
|  | **Handwriting is legible, shows good grammar and structure.** | \_\_\_ / 5 |
|  | **Diagrams are labeled and clearly show the concepts discussed on the page.** | \_\_\_ / 5 |

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| **Total Score** | \_\_\_\_ / 70 |