

9th IPS class

End of unit diff. assmt.
Worked with partners

60 pts.
20 pt/activity
Presentation
of projects.

IPS

Name _____

Project Activities

Block _____

Newton's Laws: Tic-Tac-Toe

Date _____

Standards: S1: Demonstrate an understanding of the facts, principles, theories, and models in science

S5: Understands the interactions of science, technology, and society.

Benchmarks: S1: M: Knows the kinds of forces that exist between objects and within atoms.

Directions: You are going to pick three activities to complete. The activities need to be connected from left-to-right in a row, diagonally, or top to bottom in the column.

1. Create a board game that can be played to learn at least twenty facts about Newton's three laws of motion.	2. Write a report explaining how gravity & air resistance affect the velocity and acceleration of a falling object.	3. Create a brochure that illustrates how to complete the formulas in Chapter 3 and at least 2 workable equations for the class to perform for each formula.
4. Create a crossword puzzle that includes the vocabulary relating to Newton's laws plus other terminology students need to know to understand these laws of motion. You need at least 20 terms and facts.	5. Select one of Newton's laws of motion and create a rap or song that explains it. Perform rap or song for the class or record on an audiocassette or CD.	6. Write a newspaper article that informs the public how each of Newton's laws of motion is used in everyday life.
7. Write a letter to Isaac Newton telling him how his laws of motion affect you in your <u>everyday life</u> . You will need to include descriptions of each law.	8. Design a study guide for Chapter 3 for students to use when studying Newton's laws of motion. It must have at least twenty facts.	9. Design a wanted poster for Isaac Newton including the laws of motion he was "guilty" of figuring out. <u>How do they affect us?</u> Why are these laws important?

IPS

Project Assessment

Newton's Laws: Tic-Tac-Toe

Name _____

Block _____

Date _____

The following is how you will be assessed for each activity you complete on the front side of this paper.

<p>1. Board Game: 1</p> <p>___ Clear/Understandable rules</p> <p>___ Well constructed</p> <p>___ Visually appealing</p> <p>___ Includes 20 facts</p> <p>___ Facts are accurate and relate to forces.</p> <p>___ Answers to questions, if your game asks questions.</p>	<p>2. Report: 3</p> <p>___ Clear explanation</p> <p>___ Well organized</p> <p>___ Correct spelling</p> <p>___ Contains explanations and examples.</p>	<p>3. Brochure 2</p> <p>___ Picture or formula represented</p> <p>___ Attractive layout</p> <p>___ Folded with information on each section</p> <p>___ Neat and clear writing highlighting important points</p> <p>___ Include at least 2 workable calculations</p> <p>___ Includes an answer key</p>
<p>4. Crossword Puzzle: 1</p> <p>___ Each word intersects with another in at least one space</p> <p>___ Correct spelling</p> <p>___ Accurate definitions</p> <p>___ Indicates across and down words</p> <p>___ Neat and clearly done</p> <p>___ Includes 20 facts and/or terms</p> <p>___ Includes an answer key</p> <p>___ Relates to forces</p>	<p>5. Rap or Song 3</p> <p>___ Appropriate content</p> <p>___ Has a rhythm</p> <p>___ Words and music go together</p> <p>___ Can be sung: auditory appeal</p> <p>___ Includes all important information about Law.</p>	<p>6. Newspaper Article: 4</p> <p>___ Article is written in an interesting way so the public would like to read it</p> <p>___ Accurate details about Laws and how they relate to real life</p> <p>___ Knowledge of Laws is shown by examples and explanations.</p> <p>___ Correct spelling</p> <p>___ Correct format (should look like a article in the paper)</p>
<p>7. Letter</p> <p>___ Letter format 4</p> <p>___ Correct spelling</p> <p>___ Descriptions of Laws</p> <p>___ Explanations of how you are effected by these laws</p> <p>___ Explanation of why these laws are important today.</p>	<p>8. Study Guide 1</p> <p>___ Clear and accurate</p> <p>___ Includes important information</p> <p>___ Well organized</p> <p>___ Includes at least 20 facts</p> <p>___ Includes an answer key</p>	<p>9. Wanted Poster: 1</p> <p>___ Title correctly spelled</p> <p>___ Attractive colorful visuals</p> <p>___ Clear and neat writing</p> <p>___ Creative and original</p> <p>___ Shows topic well</p> <p>___ Describes Laws or "Guilt"</p> <p>___ How it affects us today</p> <p>___ Picture of Isaac Newton</p>

Points for activities: # _____ = _____ pts., # _____ = _____ pts., # _____ = _____ pts.

Total Points _____ Grade _____