**Science Project**

**Compound Machine Project**

Your science project will be to design your own compound machine, with 4 simple machines or more.

**Both partners will work together to:**

1. Choose the **4 or more** simple machines to include.
2. **Design** the compound machine.
3. **Decide** whether the compound machine will be presented as a hand drawing, on the computer, on a poster board, the compound machine itself in 3D format that we can touch, or another way that will be brought up to the teacher’s attention for approval.
4. **Label** all the simple machines included.
5. **Decorate** and elaborate as needed (depends if done on poster board or hand drawing).
6. Write an advertising for your compound machine (USING POWERPOINT.)
	1. The advertising portion will be done in English and Spanish. One partner will write it in English and the other in Spanish.
	2. Think about who would want to purchase your compound machine. Who is your audience? Who will you try to convince to purchase your product?
	3. Make sure you appeal to your audience by including:
		1. Emotions and feelings. (ex: “Puppies need love too!”)
		2. Logic (head): (ex: “A puppy would make me more responsible”)
		3. Admiration (celebrities) (ex: “Prince Royce has a puppy”)
	4. The **advertising** should include:
		* 1. the name of the compound machine.
			2. an ***attention grabber***.
			3. a ***description*** of how it machine ***works***, its function.
			4. ***three reasons*** why someone should purchase the compound machine. (Think: If someone purchases this machine, how will it make their life easier)
			5. Why should the audience believe that your machine is as great as you say? Explain here, do not use the question to write this part.
			6. Illustrations of your compound machine being used, and how it helped make work easier for the owner.
			7. If you finish early, you will be able to create an audio commercial for your machine!

**(optional) Commercial dig**

**Choose a television show to watch. (some cases: an application game you play on your cell phone, online games/programs.) Keep a detailed list of eight different commercials (Ads) you see during the show/game. These all should come from the same show/game: You must resist the urge to change the channel/game/website. Follow the example at the top of the chart.**

**Name of TV program/application/game:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date and time of broadcast/played:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **Product name** | **Purpose of product** | **To what extent does this product appeal to you? (1-not at all; 5-I want it!)** |
| **Example: Domino’s Pizza** | **To satisfy my hunger.** | **3** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Source:**

**Science Project rubric**

**Rubric for compound machine**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **4**  | **3**  | **2**  | **1**  |
| **Design Drawing/** **Supply List**  | The drawing/list or supplies is detailed and easy to understand. The drawing is done neatly. It is labeled and includes at least 2 simple machines that are being used in the correct way.  | The drawing/list of supplies is detailed, but somewhat difficult to understand. The drawing is somewhat messy. It is labeled and includes at least one simple machine that is being used in the correct way.  | The drawing/list of supplies does not have a lot of detail and is somewhat messy. It is not labeled, but the 2 simple machines are being used in the correct way.  | The drawing/list of supplies is does not have any details and is difficult to understand because of messiness. The design is not labeled and only one simple machine is being used in the correct way.  |
| **Function**  | Compound machine has a function that can be demonstrated using all parts of the machine. Compound machine has a name. The machine is original and shows creativity.  | Compound machine has a function that can be demonstrated using all parts of the machine. Compound machine has a name.  | Compound machine has a function that can be demonstrated using some parts of the machine. Compound machine has a name.  | Compound machine has a function that cannot be demonstrated. Compound machine has a name.  |
| **Modification/** **Testing**  | There is clear evidence of troubleshooting, testing, and refinements based on data or scientific principles.  | There is clear evidence of troubleshooting, testing and refinements.  | There is some evidence of troubleshooting, testing and refinements.  | There is little evidence of troubleshooting, testing or refinement.  |

**Rubric for advertising (Persuasion Rubric)**

**Directions:** Your assignment will be graded based on this rubric. Consequently, use this rubric as a guide when

working on your assignment and check it again before you submit it.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Traits**  | **4** | **3** | **2** | **1** |
| **Organization**  | The introduction isinviting, states the goalor thesis, and providesan overview of the issue.Information is presentedin a logical order andmaintains the interestof the audience. Theconclusion strongly statesa personal opinion | The introductionincludes the goal orthesis and providesan overview of theissue. Information ispresented in a logicalorder but does notalways maintainthe interest of theaudience. A conclusionstates a personalopinion. | The introductionincludes the maingoal or thesis. Mostinformation ispresented in a logicalorder. A conclusion isincluded, but it doesnot clearly state apersonal opinion. | There is no clearintroduction,structure, orconclusion. |
| **Goal or****Thesis** | There is one goal orthesis that strongly andclearly states a personalopinion and identifies theissue. | There is one goal orthesis that states apersonal opinion andidentifies the issue. | A personal opinionis not clearly stated.There is little referenceto the issue. | The personalopinion is not easilyunderstood. There islittle or no referenceto the issue. |
| **Reasons and****Support** | Three or more excellentreasons are stated withgood support. It isevident that a lot ofthought and research wasput into this assignment. | Three or morereasons are stated,but the arguments aresomewhat weak inplaces. | Two reasons aremade but with weakarguments. | Arguments are weakor missing. Less thantwo reasons aremade. |
| **Attention to****Audience** | Argument demonstratesa clear understandingof the potentialaudience and anticipatescounterarguments. | Argumentdemonstrates a clearunderstanding of thepotential audience. | Argumentdemonstrates someunderstanding of thepotential audience. | Argument does notseem to target anyparticular audience. |
| **Word Choice** | Word choice is creativeand enhances theargument. | Word choice enhancesthe argument. | There is evidence ofattention to wordchoice. | Word choice islimited. |
| **Grammar,****Mechanics, &****Spelling** | There are no errors ingrammar, mechanics,and/or spelling. | There are few errors ingrammar, mechanics,and/or spelling, butthey do not interferewith understanding. | There are several errorsin grammar, mechanics,and/or spelling. | There are numerouserrors in grammar,mechanics, and/orspelling. |

.

**Comments**