

**Space Vehicle Prototype (Model)**

Name \_\_\_\_\_

Period \_\_\_\_\_

**Now that you have designed your space vehicle, it is time to make a working prototype (model). Your prototype should contain all of the components of your drawing; all of the constraints need to have been met. Any part that needs to move should move. Your model needs to be 3-dimensional and labeled. Your model should be made from your final drawing.**

CATEGORY	5	4	3	2	1	0
Construction	Model is a direct representation of the final sketch and three dimensional. All parts are present.	Model is mostly a representation of the final sketch and three-dimensional. 1 or 2 parts are missing.	Model is mostly a representation of the final sketch and three-dimensional. 3 or 4 parts are missing.	Model somewhat represents the final sketch and three-dimensional. 5 or more parts are missing.	There is little resemblance to the sketch or is not all three dimensional.	No model is turned in
Construction - Care Taken	Great care taken in construction process so that the structure is neat, attractive and follows plans accurately. It looks excellent!	Construction was careful and accurate for the most part but 1-2 details could have been refined for a more attractive product.	Construction accurately followed the plans but 3-4 details could have been refined for a more attractive product.	Construction appears careless or haphazard. Many details need refinement for a strong or attractive product.	Construction is clearly last minute and an attractive model is not presented.	No model is turned in
Function	All parts that need to move are moveable. All parts are held together well.	Most parts are held together well.	A few (3-4) parts are falling off.	Several (5 -6) parts falling off.	Most parts are falling off.	No model is turned in
Constraints	All 10 constraints are neatly and correctly labeled.	One or two parts are not correctly labeled.	Three or four parts are not correctly labeled.	Five or six parts are not correctly labeled.	More than 6 parts are not correctly labeled.	No model is turned in.

**IMPORTANT: THIS RUBRIC IS WHAT I WILL USE TO GRADE YOUR MODEL AND, THEREFORE, IT IS TO BE TURNED IN WITH YOUR MODEL OR YOUR MODEL WILL NOT BE GRADED!!**