

Edible Car Assignment

Objective: To design and build a car made entirely from food that travels down the ramp intact and in the fastest time. The car design should follow the restrictions outlined below.

Technological Innovation: Do not be afraid to experiment and try something out of the ordinary. Remember, it is important to draw on the knowledge and creativity you have to create your Edible Car!

Design Restrictions: Your Edible Car must:

1. Be composed entirely of food items with the exception of toothpick and skewers to hold items together.
2. Have a minimum of 4 wheels and 2 axles.
3. Look like a vehicle. There will be a coolest-looking car category.
4. Be gravity operated. Cars cannot be pushed to start.
5. Remain intact as it travels down the ramp.
6. Be fast! We are trying to see which edible car is the fastest.
7. Be fun to make and creative!



Other:

8. Groups are responsible for getting their own materials. Work with your partners to determine what you'll need and who will get it. Please be economical! Do not urge your parents/guardians to spend a lot of money
9. Student groups will have a minimum of 2 students and a maximum of 3.

10. A sketch of your initial design must be submitted to a teacher. It should label the food products being used.
11. SAFETY-Foods can only be used if they are considered safe for all students. Keep in mind that some students may have allergies to some food products!
12. Keep track of any changes you make to your original design below.

Materials Needed:

Material	Who is responsible for getting it

Design Changes:

Original Design	Design Change	Why Change was made

Reflection:

How did the habits of mind (preparedness, persistence, precision, citizenship and flexible thinking) play a role during this project?

Scoring Rubric

Activity	Exceeding	Mastery	Working Towards	Insufficient Evidence
Research	Student gathered extensive information, including teacher provided materials and additional research. Additional research includes diagrams of car designs and examples of what food types make for better designs (wheels, car body, etc)	Student gathered a wide variety of information about edible cars. Information included teacher provided and additional research.	Student gathered basic information about edible cars. The information was teacher provided.	Student gathered some information about edible cars. Not all teacher provided information was viewed.
Sketch/ Design	All components of the edible car are labeled in great detail. Plan is neat and clear. Plan includes a list of materials	Most components of the edible car are labeled in great detail. Plan is neat and clear. Plan includes a list of materials	Most components of the edible car are labeled in detail OR plan is neat and clear. Plan includes a materials list that is incomplete	Some components of the edible car design are labeled AND Plan is not neat and clear. Plan includes a materials list that is incomplete.
Collaboration	Almost always listens to, shares with, and supports the efforts of others. Tries to keep people working well together.	Usually listens to, shares, with, and supports the efforts of others. Does not cause "waves" in the group.	Often listens to, shares with, and supports the efforts of others, but sometimes is not a good team member.	Rarely listens to, shares with, and supports the efforts of others. Often is not a good team player.
Redesign of prototype	Any modifications to the original design are noted and described why they were made.	Any modification to the original design are noted but not described	Some evidence of modifications to the original design	No mention of changes to the original design.
Performance	Edible car travels intact down the ramp and crosses the finish line. It could travel a distance greater than the finish line.	Edible car travels down the ramp and crosses the finish line intact.	Edible car travels down the ramp and crosses the finish line but does not remain intact	Edible car travels down the ramp part way. It does not remain intact AND does not cross the finish line.

Time car reached finish line: _____