

Extreme Weather Vehicle Mini Challenge

Name:	
Date:	



Problem Scenario:

Storm chasers need to redesign the vehicle they use while observing extreme weather. The challenge for you is to design a vehicle that will provide protection AND relay important information about the weather.

Challenge: How can you design a vehicle that can withstand extreme weather?

Criteria:

paper/ pencil / computer

- Document the differences in weight between a traditional vehicle and a vehicle used to chase storms
- Be able to show the technology needs during storms--wifi, etc.
- Create a chart demonstrating how many vehicles may be needed in any given year
- **1. Brainstorm:** Use the space below to brainstorm the design and approach to building an extreme weather vehicle. .
 - What are the weather conditions the vehicle will be able to withstand? Be specific
 - What weather information will be collected with your vehicle?
 - What are the strongest materials you can think of?

2. Design: Use the space below to draw your vehicle. Include a written statement explaining the material that will be used and an explanation of the shape, function and form of your design.	4. Evaluate: How well will your vehicle perform? What instruments are you including? Size?Shape?Materials? Carrying capacity (number of people, weight) Travel Speed Safety features 5. Modify Based upon the evaluation of your design, what can be added or improved? Describe:
3. Build: Take your design and build a model or create a detailed drawing.	6. Share: Share your creation on Social Media! Tag us on Facebook, Twitter or Instagram @pastfoundation Use the hashtag #ThisIsPAST or #DesignThinking