








Invent It Challenge Scoring Guide

Invent It Steps		1- Requires Development	2- Approaches Standard	3 - Meets Standard	4 - Exceeds Standard
	Identifies a real – world natural disaster preparation or relief problem or challenge	Mentions a real-world natural disaster problem but does not define or explain it.	Presents a real-world natural disaster problem and provides minimal explanation.	Presents, defines, and explains a real-world natural disaster problem.	Clearly presents and defines the scope of a real-world natural disaster problem, providing detailed background and explanation.
	Demonstrates invention's originality	Presents an invention that copies existing ideas or products rather than building on them.	Presents an invention that shows some originality (relying heavily on existing ideas or products).	Presents an original invention and shows how it builds on similar past ideas.	Presents an innovative invention with attributes that reflect but go well beyond similar past ideas.
	Demonstrates how the invention might work	Sketch is incomplete and does not show how the invention works to solve the stated natural disaster problem.	Sketch is complete and somewhat demonstrates how the invention works to solve the stated natural disaster problem.	Sketch is detailed and clearly labeled to demonstrate how the invention works to solve the stated natural disaster problem.	Multiple sketches clearly demonstrate and provide examples of how the invention might work to solve the stated natural disaster problem.
	Builds a prototype or model	Prototype or model is incomplete and does not reflect the sketch or plan.	Prototype or model minimally reflects the sketch or plan.	Prototype or model is complete and accurately represents the size, shape and function. Process and materials are environmentally friendly (e.g. using recycled materials in the prototype).	Working prototype or detailed model clearly shows how the invention will function and is accompanied by video, audio or textual explanation. Explanation is provided as to how the inventor respected the environment through prototyping process and/or materials.

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	Tests the invention	States that invention has been tested or feedback has been gathered but does not provide evidence.	Shows evidence of some testing of the invention or that minimal feedback has been gathered.	Shows evidence of thorough testing of the invention and/or gathering of comprehensive feedback from potential users or experts in the field.	Shows evidence of extensive and repeated testing of different versions of the invention, and/or gathering of comprehensive feedback from both potential users and experts in the field.
	Tweaks the invention	Proposes changes to the invention, but changes do not accurately reflect the testing of the invention or the feedback student received.	Proposes changes or improvements to the invention that somewhat reflect the testing and feedback.	Clearly improves the invention based on test results or feedback.	Significantly improves the invention based on test results or feedback and adds additional innovations of their own.
	Includes a “sales pitch” convincing others of the value of the invention	Provides basic information about the invention, but no reasons for using it.	Provides information about the invention and the problem it is solving, but does not include compelling reasons for using it.	Targets an appropriate audience, clearly defines the invention, shows how it is differentiated from similar products, and explains how it effectively solves the natural disaster problem.	Includes a convincing and compelling “sales pitch” that clearly explains how the invention solves the natural disaster problem and is different from any similar products that came before it.

*Assign a score of zero if criterion is not met at all.

Total Points for all categories, (possible 28): _____