



Enrichment Title	Explore It, Design It
Enrichment Idea	To promote the exploration of the engineering and science fields
Enrichment Idea Grant Alignments & Objectives Addressed Partner Alignment	 To promote the exploration of the engineering and science fields 77% of regularly attending students will improve in teacher-rated homework completion and class participation 85% of regularly participating students will report improvements in other school subjects 85% of regularly participating students with room for improvement report that the program helped them in non-academic areas (e.g., leadership, peer relations, community service, sports skills, computer skills, drug/alcohol resistance, etc.) College of Engineering
Academic Subjects	Core Academic Subjects: Science
	Auxiliary Academic Subjects: Technology & Engineering
Standards to	Next Generation Science Standards
Address	HS – PS2 – 3
Parsonal Enrichment	MI High School Content Expectations – Physics P1.1A P1.1B P1.1C P1.1E P1.1F P2.1E P2.2A P2.2F P3.1 P3.2 P3.4 P3.5
Personal Enrichment	Students will participate in a variety of challenge that demonstrate
Categories	engineering and science concepts while being enriched in the areas consistent with the 21 st CCLC federal legislation, including: 1. Technology Education
Life Skills	Collaboration

	Problem Solving
	Critical Thinking
Duration of	8 week
Enrichment	
# of Students & Staff	15 students: 1 staff
Involved	
Frequency of	Meets 1 time per week
Enrichment	
SUGGESTED	Activity: The Balancing Acrobat
ACTIVITIES	Activity: The Spinning Top Challenge
	Activity: The Straw Rocket Challenge
If an activity is used	Activity: The Paper Airplane Challenge
that is not listed,	Activity: The Gliders Challenge
please turn in the	Activity: The Paper Bridge Challenge
lesson plan with the	Activity: The Paper Tower Challenge
ARS to the Site	Activity: The Ski Jump Challenge
Coordinator who will	Activity: Slow Roll Challenge
forward it to the C2	Activity: The Catapult Challenge*
office.	Activity: The Pick It Up Challenge*
	Activity: The Tower Challenge, Advanced*
	Activity: The Egg Drop Challenge*
	Activity: The Rat Trap Challenge*
	Activity: The Sink or Float Challenge*
	Activity: The Zip Line Challenge*
	Activity: Design a Super Dome
	*denotes more advanced activity options
Expected End	Increased knowledge in science, physics and engineering terms
Result/Product	Increased interest in the field of engineering
Connection(s) to	**See specific School Improvement Plans and Building Collaboration
Regular School Day	Guides to observe how this enrichment connects to the regular
Regular School Day	school day in each site
	School day in each site
	This enrichment plan is directly aligned to the Next Generation
	Science Standards and Michigan High School Content Expectations -
	Physics
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Adult Family Member Literacy and Involvement	 Each site will be encourage to invite families into programming to observe what is going on it the enrichment Designs from the enrichment will be displayed at each of the sites during open houses and family events
Educational Research	
Additional Resources Used	

