

Scouts BSA Dr. Bernard Harris

First Class	SCIENCE	TECHNOLOGY	ENGINEERING	MATH	
1 3 NOVA Awards	Shoot Let It Grow Splash Mendel's Minions	Start Your Engines Hello World	Whoosh Up and Away Next Big Thing	Designed to Crunch	
2	Scholarship Merit Badge				
3	Earn 4 Merit Badges	Animal Science	Electricity	Insect Study	Reptile & Amphibian Study
		Archaeology	Electronics	Inventing	Robotics
		Architecture	Energy	Mammal Study	Scuba Diving
		Astronomy	Engineering	Medicine	Signs, Signals, & Codes
		Auto Maintenance	E.Science	Mining in Society	Space Exploration
		Aviation	Farm Mechanics	Nature	Surveying
		Bird Study	Fish & Wildlife Mgmt	Nuclear Science	Sustainability
		Chemistry	Forestry	Oceanography	Veterinary Medicine
		Composite Materials	Game Design	Plant Science	Weather
		Dentistry	Gardening	Programming	Welding
		Digital Technology	Geocaching	Pulp and Paper	Soil & Water Conservation
		Drafting	Geology	Radio	Conservation
4	Complete 2 Supernova Activities in one in each of two different topic areas Part 1 - research Part 2 - experiment and report	SCIENCE Environmental Science: New Things From Old	TECHNOLOGY Energy Technology	ENGINEERING Deconstruct and Analyze: Mechanical Designs	MATH From Simulations to Real Life: Modeling Bungee Jumping
		Movie Science: Misconceptions, Misunderstandings, & Mistakes	Communication Technology	Build and Test: High Performance Paper Gliders	Linking the Past to the Future: Predicting Old Faithful's Next Eruption
		Household Chemistry: Diet Coke and Mentos	Entertainment Technology	Design, Redesign and Contest Set-up	A Paradox of Counting: Voting Methods and Fair Decisions
5	Participate in a local, state, or national science fair or mathematics competition OR any equally challenging STEM oriented competition or workshop approved by mentor				
6	Choose 1	A 1 day shadowing a local scientist or engineer and report on your experience and what you learned about STEM careers			
		B Learn about a STEM career & make presentation to your mentor about what you learned			
7	Organize and present a Nova award or other STEM-related program to a Cub Scout Den or Pack Meeting.				
8	Review the Scientific Method/scientific process and note how scientists establish hypotheses, theories, and laws. Compare how the establishment of facts or rules using scientific methods differ from rules or facts in other environments (legal, cultural, military, religious, mathematical or social)				
	Then do:	A Choose a modern scientific subject with at least two completeing theories on the subject and learn as much as possible about each theory			
		B Analyze competing theories, decide which is most convincing to you and explain why to your mentor			
		C Make a presentation to your mentor that describes the controversy, competing theories, and your conclusions about how the scientific method can or cannot contribute to the resolution of the controversy			
9	Submit a Supernova Award Application to the district or council Nova committee for approval				