

Scout: _____



Dr. Bernard Harris Supernova Award

1. Complete any three of the Boy Scout Nova awards. (Note: These may be done at any time after becoming a Boy Scout.)			
Date		Award 1	
Date		Award 2	
Date		Award 3	
2. Earn the Scholarship merit badge.			
Date			
3. Earn four of the Supernova approved merit badges from the Table 1. (Note: These may be earned at any time after becoming a Boy Scout.)			
Date		Merit Badge 1	
Date		Merit Badge 2	
Date		Merit Badge 3	
Date		Merit Badge 4	
4. Complete TWO Supernova activity topics, one each in two different STEM areas.			
Date		Topic 1	
Date		Topic 2	
5. Participate in a local, state, or national science fair or mathematics competition OR in any equally challenging STEM-oriented competition or workshop approved by your mentor. An example of this would be an X-Prize type competition.			
Date			
6. Do ONE of the following:			
A. With your parent's permission and your mentor's approval, spend at least one day "shadowing" a local scientist or engineer and report on your experience and what you learned about STEM careers to your mentor.			
B. Learn about a career that is heavily involved with STEM. Make a presentation to your mentor about what you learned.			
Date		Completed A or B	
7. Working with your mentor, organize and present a Nova award or other STEM-related program to a Cub Scout den or pack meeting. Be sure to receive approval from the appropriate unit leader and agree on a time and place for the presentation. If a Cub Scout den or pack is not available, your presentation may be given to another youth group, such as your troop or at your place of worship.			
Date			
8. Review the scientific method (you may know this as the scientific process) and note how scientists establish hypotheses, theories, and laws. Compare how the establishment of "facts" or "rules" using the scientific method differs from the establishment of "facts" or "rules" in other environments, such as legal, cultural, religious, military, mathematical, or social environments. Then do the following:			
A. Choose a modern scientific subject with at least two competing theories on the subject and learn as much as possible about each theory.			
B. Analyze the competing theories, decide which one is most convincing to you, and explain why to your mentor.			
C. Make a presentation to your mentor that describes the controversy, the competing theories, and your conclusions about how the scientific method can or cannot contribute to the resolution of the controversy.			

Date	Completed A, B & C
9. Submit a Supernova award application to the district or council Nova or advancement committee for approval.	
Date	

Table 1 Merit badges approved for use in earning the Boy Scout Supernova awards

Animal Science	Energy	Nuclear Science
Archaeology	Engineering	Oceanography
Architecture	Environmental Science	Plant Science
Astronomy	Farm Mechanics	Pulp and Paper
Automotive Maintenance	Fish and Wildlife Management	Radio
Aviation	Forestry	Reptile and Amphibian Study
Bird Study	Gardening	Robotics
Chemistry	Geocaching	Scuba Diving
Composite Materials	Geology	Soil and Water Conservation
Computers	Insect Study	Space Exploration
Dentistry	Inventing	Surveying
Drafting	Mammal Study	Veterinary Medicine
Electricity	Medicine	Weather
Electronics	Nature	Welding