



CARNEGIE SCIENCE CENTER
One of the four Carnegie Museums of Pittsburgh

Interest Project Requirements that you can meet at Carnegie Science Center

Space Exploration

Skill Builders	1	Visit the Buhl Digital Dome on the second floor for “Stars Over Pittsburgh.” This presentation shows you the night sky objects that are visible on today’s date. Ask the presenter to define the terms in this activity and see if any are presently visible.
Skill Builders	2	Visit the Buhl Digital Dome on the second floor. See a show like “A Traveler’s Guide to Mars” or “Far Out Space Places” that incorporates NASA imagery.
Technology	1	Visit the Buhl Observatory on the 5 th floor for a SkyWatch session. You can find the schedule on the Carnegie Science Center website.
Technology	5	Construct a “flying object” at the Paper Airplane table in the SciQuest gallery on the 1 st floor.
Service Projects	1	Join the Teen Volunteer program at Carnegie Science Center, and help to plan the annual Astronomy Weekend event.
Service Projects	3	Bring Brownie or Junior Girl Scouts to a SkyWatch session and lead them on a space exploration at 5 th floor observatory.

Generations Hand in Hand

Career Exploration	2	Many of the volunteers who donate their time to Carnegie Science Center are retirees. Interview a Carnegie Science Center volunteer to find out whether his or her participation at the Science Center is related to a past career or represents a recently required interest.
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On the Court

Technology		Visit SportsWorks to learn about the technology and evolution of sports equipment
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Museum Discovery

Skill Builders	1	Visit Carnegie Science Center and tour the exhibits on your own and/or arrange for a behind the scenes tour. Request a strategic plan document that includes the Science Center's mission, or investigate it on the museum's website.
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Technology	4	Visit Carnegie Science Center to evaluate if it is accessible to people with disabilities. Make a list of recommendations on how you would improve it.
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Service Project	1	Develop a field trip experience or sleepover for Junior Girl Scouts or Brownies at Carnegie Science Center.
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Career Exploration	1	Find out about three careers at Carnegie Science Center, such as exhibit presenter, staff educator or development officer. Find out what education preparation and training are required for those jobs.
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Career Exploration	3	Shadow a Carnegie Science Center presenter for a day. Observe how he or she interacts with the public, and identify the behind-the-scenes work that is required to be successful.
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Career Exploration	4	Meet with the Aquariums & Animals Coordinator or SeaScape Staff Educator to learn more how Carnegie Science Center's live exhibits are maintained.
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Career Exploration	5	Join the Teen Volunteer program.
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All About Birds

Skill Builders	1	Visit the "Flight" section of the SciQuest gallery on the 1 st floor to learn about the mechanics of flight and the similarities and differences of birds, planes and gliders.
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Heritage Hunt

Skill Builders	4	Did you know that almost all of the models at the Miniature Railroad & Village on the 2 nd floor are replicas of real buildings in western Pennsylvania? Use the Miniature Railroad as a resource for investigating historic buildings.
Technology	1	Study the steel mill model at the Miniature Railroad & Village on the 2 nd floor. Research the Sharon Steel Mill to complete this activity.
Technology	3	As you observe the Miniature Railroad on the 2 nd floor, take note of the activities being performed in the various scenes. Which activities are no longer necessary, or have been replaced by updated technologies?
Service Project	3	Join the Teen Volunteer program at Carnegie Science Center, and volunteer at the Miniature Railroad & Village.

Architecture and Environmental Design

Skill Builders	3	Visit the Miniature Railroad & Village on the 2 nd floor to learn about scale modeling. What materials are used? What techniques are important? Use what you learn to build your own model.
Technology	4	Visit the Building Green exhibit on the 4 th floor to find out more about materials being developed for use in sustainable home construction. What are they made of? What are the benefits and risks of using these types of materials?

Math, Maps and More

Skill Builders	1	Create a budget that includes a trip to Carnegie Science Center. Be sure to include the costs of food, transportation, admission and accommodations, if necessary.
Skill Builders	5	The Miniature Railroad & Village on the 2 nd floor is built in "O" gauge. Ask a Miniature Railroad staff member what this means, then use the same scale in your map. What kinds of things are easy to represent in this scale, and what things are difficult?

Why in the World?

Skill Builders	4	Investigate sustainable building materials at the Building Green exhibit on the 4 th floor. What are they made of? What are the advantages of using them?
Skill Builders	6	See a variety of shows at the Kitchen Theater on the 3 rd floor, where you can learn about science of food, such as the science of carbonation or the protein chemistry behind meringue.
Service Projects	5	Become an active participant on Braincake.org, a website designed by the Girls, Math & Science Partnership, a program of Carnegie Science Center. What leadership opportunities exist for you in this online community?
Career Exploration	4	Join the Teen Volunteer program at Carnegie Science Center.

Computers in Everyday Life

Technology	3	See a movie at the Rangos Omnimax Theater that incorporates computer-assisted effects, like <i>Dinosaurs Alive!</i> or <i>Sea Monsters</i> . Investigate how creating movies in IMAX format is different than producing regular films.
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Eco- Action

Skill Builders	1	Visit Building Green exhibit on the 4th floor to learn about sustainable building practices and technologies.
Technology	5	Investigate post-consumer recycled materials displayed in the Building Green exhibit.
Service Projects	2	Join the Teen Volunteer program at Carnegie Science Center, and suggest the SeaScape or Exploration Station exhibits as preferences.

Planet Power

Skill Builders	2	Visit Building Green on the 4th Floor to learn about different types of insulating materials.
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From Shore to Sea

Skill Builders	1	Visit the SeaScape aquariums on the 3 rd floor. This is a saltwater coral reef ecosystem. Learn about each of the species in the aquarium.
Service Projects	2	Join the Teen Volunteer program at Carnegie Science Center, and work in the SeaScape aquarium. Learn about the different species represented in the aquarium and how humans have impacted these species' natural habitats.
Career Exploration	4	Interview the Aquarium & Animals Coordinator or the SeaScape Staff Educator at Carnegie Science Center. What kind of training, skills and education has helped them succeed in their jobs?

Inventions and Inquiry

Technology	4	Attend SciTech Days or Engineer the Future at Carnegie Science Center. Look on the website to find the dates of these events. Interview representatives from companies who are creating new technologies and inventions in the Pittsburgh region, and discuss the processes of inventing, patenting and marketing.
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Build a Better Future

Service Projects	1	Join the Teen Volunteer program at Carnegie Science Center to build your skills in discussing engineering and technology.
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Digging Through the Past

Technology	4	Visit the Earthquake Café and surrounding exhibits in the SciQuest gallery on 1st floor to learn about earthquakes.
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Sports for Life

Technology	4	Stop in at SportsWorks to check out how people with disabilities have been equipped to play sports.
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Technology	5	Learn about your favorite sports equipment at SportsWorks
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On the Court

Technology	1	Visit the displays of historical sporting equipment at SportsWorks.
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Technology	3	Take a trip to SportsWorks to study how equipment has been adapted for athletes with disabilities
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