

Panasonic Student Eco Citizenship Project



Career Connections

To connect this program to career exploration, have students research one local, national or worldwide professional who has impacted the environment. Students may consider such professions as: engineers, climatologists, wildlife/ zoology advocates, marine biologists, oceanographers, educators, researchers and/or inventors.

You may want to use the past and present examples of professionals: Dr. Neil DeGrasse Tyson, Gaylord Nelson, John Muir, Theodore Roosevelt, Bill Nye, Marie Curie, Wangari Maathai, Rachel Carson, Steve Irwin, Jacques Cousteau, Steven Hawking or Jane Goodall. Sample descriptions follow.

Have students answer the following:

1. What are/were the job duties and responsibilities of this person?
2. What previous jobs helped them prepare for this career?
3. What education, skills and personal qualities were required to have this type of job?
4. Were/are there any special materials, equipment, tools or machinery that this person would have to know how to use?
5. Does this person have a routine for success? And if not, why?
6. What were/are the challenges of this person's job? The demands? The rewards?
7. Did this person achieve their career goal? If so, how long did it take them?
8. Are there other people in this same type of job? If so, who are they?

<p>Dr. Neil DeGrasse Tyson (1958 - Present) Astrophysicist, Science 'communicator' with shows such NOVA and Cosmos. Author and essayist for "Natural History" Magazine. Director at Hayden Planetarium (NYC). http://www.haydenplanetarium.org/tyson/profile/about-neil-degrasse-tyson</p>	<p>Marie Curie (1867 - 1934) (Warsaw, Poland) First woman to receive PhD and Nobel Prize. Discovered radium and polonium. https://www.nobelprize.org/nobel_prizes/physics/laureates/1903/marie-curie-facts.html</p>
<p>Gaylord Nelson (1916 - 2005) Senator (WI). Founder of Earth Day. http://www.nelsonearthday.net/nelson</p>	<p>Rachel Carson (1907 - 1964) Marine biologist, conservationist, ecologist. Always aware of impact humans had on natural world. https://www.biography.com/people/rachel-carson-9239741</p>

<p>John Muir (1838 - 1914) “John of the Mountains”; environmental activist. Founded Sierra Club. Explored Yosemite. Dozens of places named after him including Muir Woods in Northern California. http://vault.sierraclub.org/john_muir_exhibit/about/</p>	<p>Dr. Mae Jemison (1956 - Present) American engineer and NASA Astronaut. First African-American woman to travel into space (1992). https://www.biography.com/people/mae-c-jemison-9542378</p>
<p>Aldo Leopold (1887 - 1948) “Father of Wildlife Ecology” and “Land Ethic” idea (a caring relationship between people and nature). The natural world is a community to which we belong. https://www.aldoleopold.org</p>	<p>Ms. Wangari Maathai (1940 - 2011) “Environmental conservationist”; first woman in East and Central Africa to obtain PhD. Assisted women groups in planting more than 20 million trees known as the “Green Belt Movement”. https://www.nobelprize.org/nobel_prizes/peace/laureates/2004/maathai-bio.html</p>
<p>Theodore Roosevelt (1858 - 1919) Naturalist and saw how human activities could harm environment. As President, he set aside millions of US acres for federal protection. https://www.britannica.com/biography/Theodore-Roosevelt</p>	<p>Bill Nye (1955 - Present) Mechanical engineer and science ‘communicator’ who most recently, is known as “Bill Nye the Science Guy”; his own educational show for students. http://www.planetary.org/about/staff/bill-nye.html</p>
<p>Steve Irwin (1962 – 2006) Australian wildlife enthusiast and educator known as the “Crocodile Hunter” which aired on TV. https://www.biography.com/people/steve-irwin-189158</p>	<p>Jane Goodall (1934 – Present) Uncovered behaviors in chimpanzees which helped shape scientific research. Promotes ecological responsibility through businesses and government. https://www.biography.com/people/jane-goodall-9542363</p>
<p>Jacques Cousteau (1910 – 1997) Scientist, explorer, and conductor of many underwater expeditions including the French Navy’s undersea research group. Known for books, films and TV shows. https://www.biography.com/people/jacques-cousteau-9259496</p>	<p>Steven Hawking (1942 – Present) Physicist, cosmologist and scientist known for his work with black holes and relativity. Authored numerous books and continues research despite his battle with ALS (Lou Gehrig’s disease). https://www.biography.com/people/stephen-hawking-9331710</p>