Technology and the Modern World WebQuest

**Technology & Energy**

[Nuclear Power](http://education.nationalgeographic.org/encyclopedia/nuclear-energy/%20)

1. How does nuclear power work?
2. What are some by-products of nuclear energy?
3. What happened in Chernobyl? What was the impact of the event on the environment and the people?

[Solar Power](http://www.scientificamerican.com/article/how-does-solar-power-work/%20)

1. How does a solar cell turn sunlight into electricity?
2. How much electricity is produced by solar power?

[Pros and Cons of Solar Power.](http://energyinformative.org/solar-energy-pros-and-cons/)

1. List and explain three pros and three cons of solar power. Explanations should be one sentence.

[Hydroelectric Power](http://education.nationalgeographic.org/encyclopedia/hydroelectric-energy/)

1. How does hydroelectricity work?
2. What are environmental issues that can be caused by hydroelectric technology?

[Wind Energy](http://education.nationalgeographic.org/encyclopedia/wind-energy/)

1. How does wind energy work?
2. Which region of the United States has a large amount of wind farms? Why?
3. What are some of the challenges with wind-power as an alternative to fossil fuels?

Sustainable Cities

Click on the following links and read through the articles to answer the question below in a paragraph.

[Link 1](http://environment.nationalgeographic.com/environment/energy/great-energy-challenge/big-energy-question/how-to-make-our-cities-more-livable-and-sustainable/), [Link 2](http://switchboard.nrdc.org/blogs/kbenfield/what_cities_should_do_to_becom.html), [Link 3](http://www.theguardian.com/sustainable-business/2015/apr/17/how-to-make-our-cities-more-sustainable-expert-view)

1. How would you make Charlotte a [“Sustainable City](http://archive.rec.org/REC/Programs/SustainableCities/What.html)”?

**Technology & Communication**

[Internet Revolution](http://www.ironboundpress.com/pdf/intrev-chap0.pdf)

1. What is the Internet Revolution?
2. According to the chapter, how has the internet changed life?

[The Internet and Revolution](http://mic.com/articles/10642/twitter-revolution-how-the-arab-spring-was-helped-by-social-media#.9WJhLQs4A )

1. What role did social media play in the Arab Spring?

**Health Issues**

[GMOs](http://learn.genetics.utah.edu/content/science/gmfoods/%20)

1. What are GMOs?
2. What are some of the benefits of GMOs?
3. What are some of the risks?

[Advancement in Health Science](http://abcnews.go.com/Health/TenWays/story?id=3605442&page=1)

1. Explain why each of the advancements is significant in the field of health science.
   1. Vaccines
   2. The birth control pill
   3. Advancements in childbirth
   4. Antibiotics and antivirals
   5. Surgical anesthetic

[Healthcare as a Global Issues](http://www.globalissues.org/article/774/health-care-around-the-world)

1. What are challenges that developing nations face in the field of healthcare?

**Essential Question:**

How has modern technology both positively and negatively impacted our world today? Cite at least 3 examples in your answer.