



Title: STEM in All Clusters! STEM Career Web

Grade: 6

Career Development Model:

Career Exploration

Nebraska Career Readiness Standards:

- Manages personal career development

Objective:

- Students will explore careers that utilize STEM-Science, Technology, Engineering, and Mathematics and can be found in all of the career clusters.

Materials and Supplies Needed:

- Access to the Internet to search and explore STEM careers at: www.NebraskaCareerConnections.org and additional STEM career websites.
- The Future of Work video: <https://youtu.be/HF-a-UmoRt4>
- Copies of "STEM Career Web" handout

Class Instructions:

Time: 30 - 40 minutes

1. Share with students that today we're going to explore a careers pushing the cutting edge of science, technology, engineering, and mathematics.
2. Many of the jobs and careers that will be available for these students when they graduate high school or college don't even exist yet.
3. Discuss job title examples and show video: Future of Work, then brainstorm all the STEM jobs needed for the future of work.
4. Tell the students that next we're going to use some technology to explore STEM careers.
5. Distribute the "STEM Career Web" handout and give the following directions:
 - a. Using an online source, identify a STEM career.
 - b. Write that career in the center circle on your web.

- c. Continue to branch out the web by adding information about that career (Some possibilities include: education requirements, helpful characteristics, where jobs like this are located, helpful experiences at the high school level, etc.)
- d. Add as many branches off the center circle as you would like. Be sure to label what you're writing, so if you reference it later, it will make sense.
- e. Be ready to share your findings with the class.

6. Give ample work time online.

7. When students have finished, allow them to share their findings with another class member or with the entire class, depending on time availability.

8. Continue to encourage more exploration of STEM careers.

Credits/Sources:

Nebraska Career Education

STEM Career Web

Directions: Identify a STEM career. Write that career in the center circle. Build a web off of the center circle, adding details about the specified career. Some optional branches to add to the web may include: education requirements, helpful personal characteristics, locations where jobs like this are found, helpful experiences at the high school level, any specialized programming or certifications, etc. Be ready to share your findings with the class.

