Title: Career Exploration in STEM Careers

Grade: 2

Career Development Model:

 Career Exploration

Nebraska Career Readiness Standards:

- Communicates effectively & appropriately
- Contributes to employer & community success
- Manages personal career development
- Manages personal career development

Objective:

- Students will recognize different STEM career choices in the community.

Materials and Supplies Needed:

- Visuals for different careers
- Projector
- Careers in STEM PowerPoint
- Who Am I Cards (enough for each child or pairs)
- Data Catcher (pre-post lesson perception data)

Class Instructions:

1. Begin lesson by asking students what a career is. What kinds of careers do your parents or other family members have?

2. Give the students an opportunity to share.

3. What kinds of different careers are at school? (e.g. nurse, custodian, secretary principal, lunch staff, librarian)

4. We are going to talk about different careers at a school and what each looks like. (10 min.)

5. Share career slides (Careers in STEM PowerPoint). Ask: Do you know anyone who has this career?

6. Have you seen anyone do these things on tv/movies/real life?

7. Turn and talk to a partner and share which one of these careers you would like to have one day or which one interests you.

8. Review Who Am I Cards.

9. Distribute one card to each child or pair of students. Let the student try to remember on their own, then reveal the names of the careers so the students can practice writing them.

10. Have students write the name of the career card. They will demonstrate their knowledge of the various careers by matching the career to the responsibilities.

11. Provide opportunities for the group to discussion to share.

Credits/Sources:

Thank you Denver Public Schools: School Counseling Classroom lessons for ICAP-Individual Career & Academic Plan

Data Tracker for Career Development Lesson: STEM Careers

Class_____ Date/Time:_____

Beginning of the lesson, Fist to Five	End of the lesson, Fist to Five
# of Students who held up zero:	# of Students who held up zero:
# of Students who held up one:	# of Students who held up one:
# of Students who held up two:	# of Students who held up two:
# of Students who held up three:	# of Students who held up three:
# of Students who held up four:	# of Students who held up four:
# of Students who held up five:	# of Students who held up five:

Students who did not receive the lesson:

_____

_____

_____

_____

Counselor_____

Careers in STEM

(Science, Technology, Engineering, and Math)

2nd Grade

Thank you to Denver Public Schools Counseling for sharing this lesson with Nebraska.

Objective

Students will be exposed to and gain an understanding of different STEM career choices in their community.

Fist to Five

Do you know any jobs (careers) that people have because they like learning and working in science and math?

Fist is: "I don't know any,"

1 is: "I know 1" to

5 is: "I could name 5"

Word Bank

Here are some words that you want to pay special attention to during our career lesson. They might not be words you have seen before, but they will start to make sense by the time we are done together.

- Electrician
- Vet Tech
- Engineer
- Astronomer
- Architect
- Computer Programmer

Warm-Up Questions

- What is a career?

- What are your family members' careers?

- What careers do people have in our school?

- What kind of job would you like to have one day and why?

Let's discuss it!

Let's talk about some STEM careers!

I install electrical equipment for our homes.

I help with the wires to make our lights work.

I can fix an outlet or install wires for things like speakers.

Electrician

Vet Tech

I help animals like a nurse helps people. I am an assistant to the veterinarian doctors.

I help with animal dental cleanings and giving shots.

I also help educate the pet owners to help their pets.

Engineer

- I work on the design and construction of buildings, roads and bridges.

- I deal with the design and construction of things such as bike locks, child's toy, a car's engine, a wheelchair or a boat.

- I design and construct aircraft (airplanes).

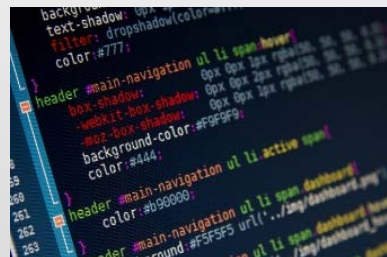- I find ways of cleaning up our oceans, rivers, and drinking water.

Astronomer

- I am a scientist who watches the stars, and planets, and galaxies beyond earth.

- I use math to understand what is happening.

- I usually will teach other people about what I have learned by teaching at a college or writing for other people to read.

Computer Programmer

- I develop a language that a computer can understand....a special language just for computers.

- I codes, tests, debugs, and maintains the computer so it can work properly.

- I develop and implement various sets of instructions to enable a computer to do a certain task.

Architect

- I design, plan and supervise the construction of buildings.
- I'm responsible for the safety, the use, and the beauty of a building.

Let's Review

Find a student or a pair of students and tell them the name of the career on your card, and explain one thing a person has to do if they have that job.

Fist to Five

- Do you know any jobs (careers) that people have because they like learning and working in science and math?

- **Fist** is: "I don't know any," **1** is: "I know 1" to

  5 is: "I could name 5"

Exit Ticket

- Turn in your STEM career card, and tell your counselor or your teacher the name of the job and one thing they do!

I install electrical equipment for our homes.

I help with the wires to make your lights work.

I can fix an outlet or install wiring for things like speakers.

Who Am I?

I work on the design and construction of buildings, roads, and bridges.

I deal with the design and construction of things such as bike locks, a car's engine, a wheelchair or a boat.

I design and construct aircraft (airplanes).

I find ways of cleaning up our oceans, rivers, and drinking water

Who Am I?

_____

I help animals like a nurse helps

people. I am an assistant to the veterinarian doctors.

I help with animal dental cleanings and giving shots.

I also help educate the pet owners to help their pets.

Who Am I?

I develop a special language just for computers.

I code, test, debug, and maintain the computer so it can work properly.

Who Am I?

_____

O I am a scientist who watches the stars, and planets, and galaxies beyond earth.

O I use math to understand what is happening.

O I usually will teach other people about what I have learned by teaching at a college or writing for other people to read.

Who Am I?

I design, plan and supervise the construction of bulidings.

I'm responsible for the safety, the use, and the beauty of a building.

Who Am I?