



STEM Works: Reno Fire Department

To effectively fight fires, assist the injured, and determine the cause of a fire, the Reno Fire Department (RFD) relies on many different people with different skills. The RFD doesn't just show up to put out fires, their work begins long before a fire starts and continues after they've put it out. Fill in the blanks with vocabulary words from the word bank below to explore the process of firefighting.

1) Time to learn how to be a firefighter! As a new _____ you have a lot to learn at the academy, things like how to drive the truck, how to work as a team, and how _____ will impact the speed and power of water coming out of the hose. If you're going to be an EMT you'll learn about _____, the study of the human body so you can better help injured people.

2) Not everyone in the fire department goes to fight fires and rescue people. Another important job is the fire investigators who use the _____ _____ to determine how and where a fire started. Investigators have learned all about how fires work and the evidence they leave behind, like if an _____ was used to increase the spread of the fire. By finding where and how the fire started (known as _____ _____) fire investigators help us tell the story of what happened at a fire.

3) After training is completed, firefighters spend a lot of time in the station training and practicing, but they're always ready to be _____ on a call to the scene of an emergency. When they arrive, they'll often find the nearest _____ to attach the hose to for consistent water supply. If someone is trapped in a dangerous situation, firefighters will perform an _____ to rescue them before the EMTs make sure they're ok.

WORD BANK

Hydrant

Friction laws

Cadet

Dispatched

Academy

Physiology

Accelerant

Extrication

Origin and cause

Scientific method



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ANSWER KEY

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- 1) Time to learn how to be a firefighter! As a new **cadet** you have a lot to learn at the **academy**, things like how to drive the truck, how to work as a team, and how **friction laws** will impact the speed and power of water coming out of the hose. If you're going to be an EMT you'll learn about **physiology**, the study of the human body so you can better help injured people.
- 2) Not everyone in the fire department goes to fight fires and rescue people. Another important job is the fire investigators who use the **scientific method** to determine how and where a fire started. Investigators have learned all about how fires work and the evidence they leave behind, like if an **accelerant** was used to increase the spread of the fire. By finding where and how the fire started (known as **origin and cause**) fire investigators help us tell the story of what happened at a fire.
- 3) After training is completed, firefighters spend a lot of time in the station training and practicing, but they're always ready to be **dispatched** on a call to the scene of an emergency. When they arrive, they'll often find the nearest **hydrant** to attach the hose to for consistent water supply. If someone is trapped in a dangerous situation, firefighters will perform an **extrication** to rescue them before the EMTs make sure they're ok.

WORD BANK

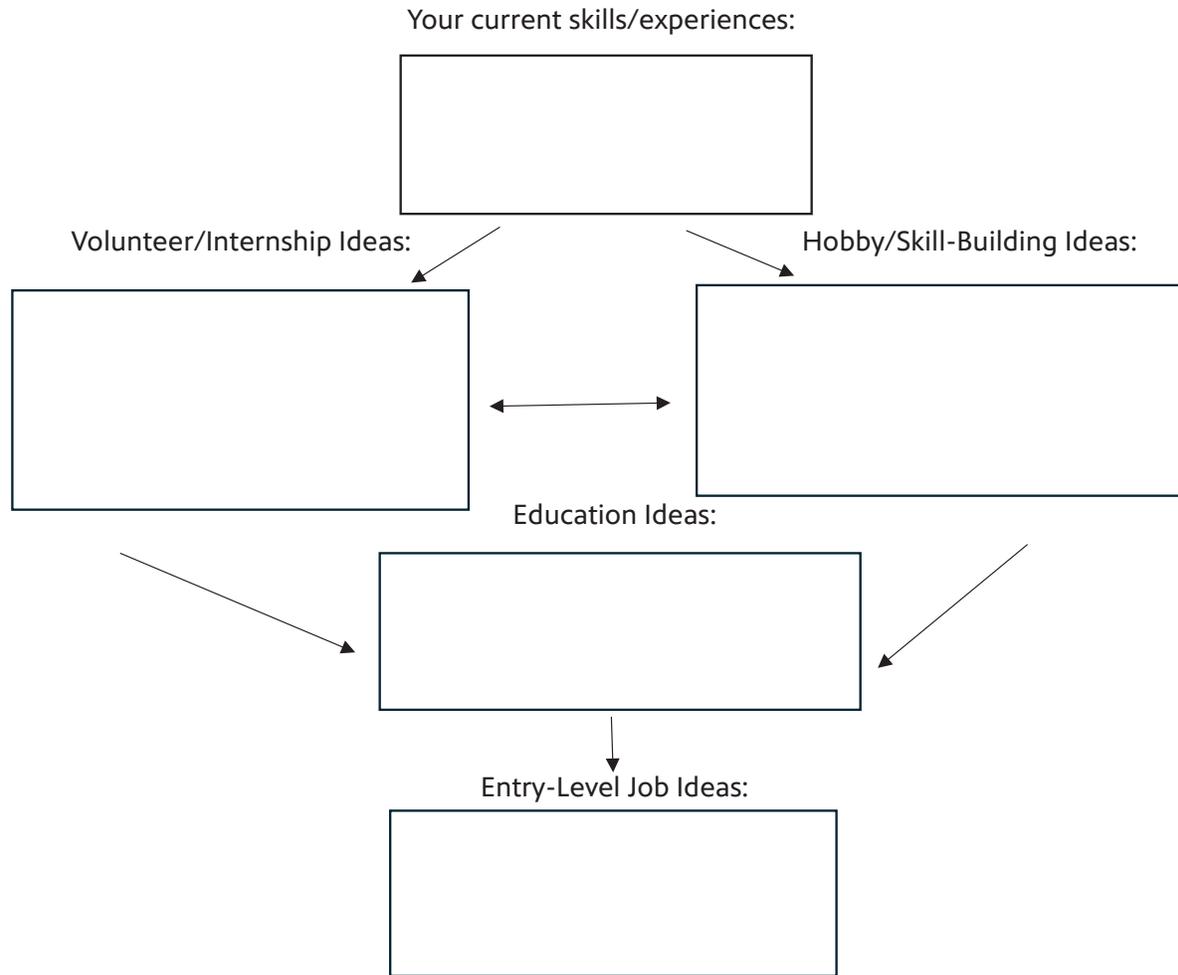
Hydrant	Friction laws	Cadet	Dispatched
Academy	Physiology	Accelerant	Extrication
Origin and cause	Scientific method		

STEM Works

CLASSROOM ACTIVITY | RESOURCES

How can you work in this STEM Field?

Use the boxes below to brainstorm ways you can build on your current skills, gain experience and education, and make a STEM career in this field a reality!



Congratulations! You've been hired for your dream job at _____!

To explore career maps from some local Nevada educational institutions, check out these links:



[TMCC Career Mapping](#)



[WNC Academic Program Guide](#)



[UNR Career Exploration and Preparation](#)