

School Group Museum Exploration (CHAPERONE'S KEY)



Welcome to the Colorado Railroad Museum!

The Museum is a 15-acre railyard, home to over 100 historic railcars. Explore the Museum to find steam and diesel locomotives, cabooses, passenger cars, a roundhouse and turntable, depot museum with exhibits, and HO and Garden model railroads.

Railcars

Check off the railcars you find at the Museum. Write the name of each car below the picture:



BOX CAR

protects cargo from weather



TANK CAR

carries liquids or gasses



REFRIGERATOR CAR

keeps cargo cold



CABOOSE

historic car that was an office and living quarters for conductor and brakeman and a spot to keep an eye on the train



FLAT CAR

carries large items on a flat bed



STOCK CAR

historic car that carried animals



DINER CAR

a passenger car where people eat



PASSENGER CAR OR COACH

carries passengers



OBSERVATION CAR

a passenger car where people can enjoy the view from the windows

Museum Scavenger Hunt

Check off each of these that you find at the museum and answer the questions in the space below:

- Go inside D&RGW Kitchen Car No. 4255. What do you see inside?
INSIDE THE CAR THERE IS AN EXHIBIT OF A WORKER COOKING OVER A POT, CRATES OF FOOD, A N OLD STOVE, INTERPRETIVE SIGN-AGE ABOUT KITCHEN CARS, INFORMATION ON HOW MUCH IT TAKES TO FEED A TRAIN CREW.
- Find a caboose.
- Find the turntable and roundhouse.
- Find the water tower. This tank can hold 10,000 gallons of water. Explain why some locomotives need water.
STEAM LOCOMOTIVES USE WATER THAT IS HEATED INTO STEAM TO RUN THE ENGINE.
- Spot a coal pile. Explain why some locomotives need coal.
STEAM LOCOMOTIVES CAN BURN COAL, OIL OR WOOD TO HEAT WATER INTO STEAM.
- Go inside C&S Railway Post Office car No. 254. What are the workers doing inside?
INSIDE THE CAR THERE IS AN EXHIBIT OF POST OFFICE WORKERS SORTING MAIL INTO BAGS. THERE IS ALSO INTERPRETIVE SIGN-AGE ABOUT POST OFFICE CARS.
- Go inside RGS No. 01789, the oldest freight car in Colorado. It was turned into a bunkhouse car for railroad crews to sleep. How would it feel to live inside of this bunkhouse with 7 other people?

Locomotives

Find these two locomotives at the museum. Draw a line from the locomotive to the type of engine it is:



diesel-electric locomotive

steam locomotive



Fill in the blanks:

A **DIESEL-ELECTRIC** locomotive works by burning liquid fuel oil in an internal-combustion engine. The engine's crank shaft turns an electric generator, which sends electricity to traction motors on the trucks of the locomotive. A gear on the traction motor shaft engages a gear on the axle and moves the locomotive wheels

A **STEAM** locomotive works by burning coal, wood or oil to heat water into steam. The pressurized steam is fed to cylinders with pistons in them, causing the pistons to move back and forth. The pistons are connected via cranks to the drive wheels which propels the locomotive.

What did you see?

Draw a picture of, or describe your favorite thing that you saw at the Museum in the box below:

ANSWERS WILL VARY

Colorado Railroad History

Find one fact about Colorado railroad history at the Museum and write it down in the box below:

ANSWERS WILL VARY

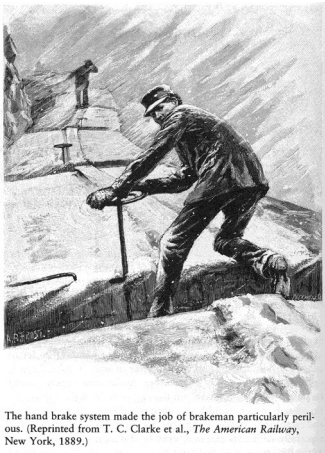
Railroad Safety

Find a rule about railroad safety on a sign at the Museum and write it down in the box below:

ANSWERS WILL VARY

Railroad Workers

Match the worker to the job (Hint: Look for a large sign at the Museum):



The hand brake system made the job of brakeman particularly perilous. (Reprinted from T. C. Clarke et al., *The American Railway*, New York, 1889.)

<u>Worker</u>	<u>Job</u>
Brakeman	In charge of the train, its operation and the crew's safety
Conductor	On a steam locomotive, this worker was in charge of maintaining water level and keeping the fire going
Fireman	The worker who ran the railway station, was the ticket agent, baggage handler and telegraph operator
Station Agent	A dangerous, entry-level job that once required manually turning a brake wheel

Go Inside!

At the Museum we always have some of our rail cars and locomotives open to the public. Find at least 2, then go inside and describe what you find out about them below:

I went inside a (circle one):

locomotive	or	rail car
What kind of locomotive was it? ↓ ↓ steam diesel		What kind of rail car was it? _____

Inside I saw:

ANSWERS WILL VARY

Something that I thought was interesting about it was:

I went inside a (circle one):

locomotive	or	rail car
What kind of locomotive was it? ↓ ↓ steam diesel		What kind of rail car was it? _____

Inside I saw:

ANSWERS WILL VARY

Something that I thought was interesting about it was:
