

*English
Language
Arts*



Study Guide



405 Perry Road
Bangor, ME 04401
207-990-3600
www.colemuseum.org

*Open May 1 thru November 11
Seven Days A Week
9:00 am to 5:00 pm*

Riddles

I have wheels but no engine. I run on a track. What am I? (hand car)

What is flat like a pancake and was used to save lives? (safety net)

Although I am usually iron, a gold one was driven at Promontory Point, Utah. What am I? (railroad spike)

I am big and powerful. I haul freight and passengers across the country. I am a _____.
(train engine)

Horses and oxen have been replaced by me in most farming operations. I am a _____.
(tractor)

I am very large; I travel the nation's highways. I carry a variety of goods. I am a _____.
(trailer truck)

I am a tool used to debark trees. I am also a nick name for a potato. My name is a _____.
(spud)

I am the color of all the Coles trucks? (orange)

I was used in World War II. I am a _____. (jeep)

My initials are C.C.C. What do I stand for? (Civilian Conservation Corps)

My initials are D.O.T. What do I stand for? (Department of Transportation)

I am made of thin strips of leather. I am placed on the back of a horse. My job is to _____. (shoo flies)

What vehicle was used by a Maine Governor? (car)

What item was not used in Maine? (schooner or ox cart)

I am made of metal. You need to turn me quickly to start my engine. What am I? (crank)

I am the newest brake system. I can stop large trucks quickly. I use air to operate. I am _____.
(the air brake)

I am something people put on their tires when they got stuck or traveled in heavy snow. What am I? (chain)

Transportation Jeopardy

This game is modeled after the television program *Jeopardy*.

Divide your class into teams.

Allow each team to select a category and an amount.

Each question, under the various categories, is worth a specific amount of points which a team can earn with a correct answer.

The team with the most points wins.

More questions and amounts could be added to the game by the students or the teacher.

Fire Vehicles	Railroads	Plows	Trucks and Tractors	Recreation	Wagon Sleighs
Early fire trucks did not have room to carry the hoses. Name the vehicle that carried the hose.	What is the name of the last car on the freight train?	What museum in the U.S. has the greatest collection of snow removal equipment?	What is the name of the first truck used by Coles Express?	The 'bone shaker' was what kind of vehicle?	What is the name of the fur used in a blanket found in one of the sleighs?
Name the kind of dog associated with the fire truck.	Who rides the caboose?	What was the maximum speed for the Cletrac plow?	The famous McCormick tractor could pull as much as how many horses?	The largest toboggan held how many people?	What kind of material was used to make axles for wagons before metal was used?
What 35 foot wooden ladder was world famous?	What was the name of one of the oldest railroads in the U.S.?	Besides Lombard, who else invented a truck with a bulldozer track?	What automobile in the museum makes into a farm tractor from the Sears Roebuck Catalog?	What vehicle could we use to go to a recreational area and live?	What vehicle had runners as well as wheels to be used in all seasons?
Name the device that pumped 1100 gallons per minute in 1907.	What is used to make the train rails level?	What company in Maine produced the most snow plows?	What did General Patton call the greatest invention of WWII?	What 2-wheeled vehicle in the museum was used for racing?	Before 1913, what hauled ice for refrigeration?
Fire engines which have two rows of seats are called what?	What towns were connected by Maine Central Railroad?	What man first plowed the roads north of Lincoln to Aroostook County?	What was used to start the early engines before the starter button.	What were the first snowmobiles called?	What kind of wagon did the dentist (Dr. Mansfield) use?

Answers

Fire Vehicles

horse cart
Dalmatian
Bangor ladder
pumper
double cabs

Railroads

caboose
brakeman
Veazie R.R.
Shim
Calais and Woodland
(Baileyville)

Plows

Cole Museum
4 miles
Lynn
Sargents
Allie Cole

Trucks and Tractors

Model T truck
ten
tractor
half-track
crank

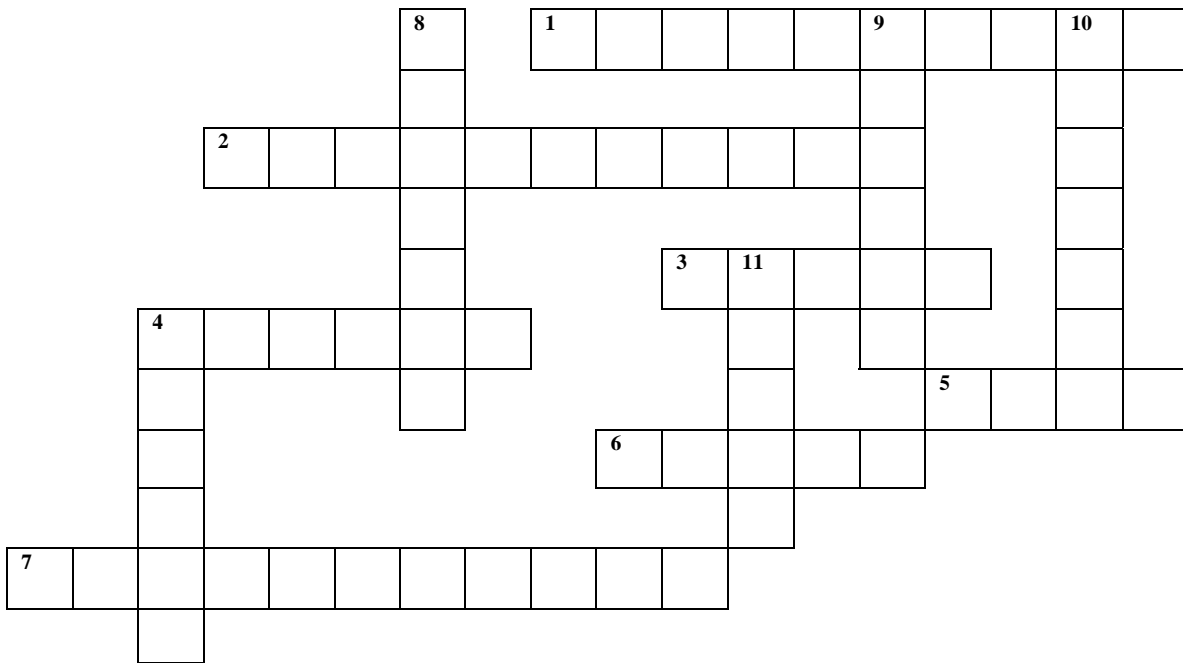
Recreation

bicycle
five
camper
chariots
ski-doo

Wagons and Sleighs

buffalo
wood
hearse
wagon
buckboard

Crossword Puzzle



Across

1. The name of a large horse
2. Rectangular granite blocks used to build roads
3. A place that heats metal for sharpening
4. A firefighting truck
5. A box sleigh
6. Connects the hub of a wooden wheel to its rim
7. A vehicle with a wheel at one end and 2 straight handles at the other

Down

4. A tool used to move heavy logs
8. A sled with two sets of runners
9. Vehicle on runners used on ice and snow
10. A lamp with a handle for carrying
11. A wooden collar around the neck of an ox

Answers to Crossword Puzzle:

Across

1. Clydesdale
2. Cobblestone
3. Forge
4. Pumper
5. Pung
6. Spoke
7. Wheelbarrow

Down

4. Peavey
8. Bobsled
9. Sleigh
10. Lantern
11. Oxbow

Careers

1. Brainstorm a list of responsibilities that an engineer of the “American Railfan” would have had. Then write a story of an adventure or problem that the engineer might have had on one particular day.
2. What responsibilities did a station agent have? List the character traits that a station agent had to have. What character trait do you feel is most important? Why? Write a story about a station agent who’s best character trait came in handy.
3. Compare the experiences of fighting a fire with a hand pump to fighting fires today. What do you think future firefighting will be like? Use a chart or pictures to organize your information about firefighting past, present, and future. Then prepare news broadcasts telling about each.
4. Compare the feelings of being the first person to ever drive a train to the first space astronaut navigating his/her ship. Use a chart to organize your information. Then write a journal entry from the viewpoint of each.
5. You’ve retired from the fire department after 40 years. You are accepting your gold watch. Write a retirement speech, highlighting major points in your career.
6. Interview someone associated with the museum. First, think about your purpose in interviewing. What questions would you ask? For example, you could interview Galen Cole. Your purpose would be to find out why Mr. Cole started the museum. Present your information in a “Barbara Walters’ Special” TV broadcast.
7. Compare yesterday’s truck driver to today’s truck driver. Think about responsibilities, safety, routes traveled, working hours, wages, education, and equipment. Display your information creatively. The comparisons could include: mechanics, city workers, dentists, firefighters, train engineers, station masters, construction workers, land surveyors, farmers, company owners, etc.
8. Read the story of *Allie Cole*. List character traits that Allie Cole had that made him successful (determination for example). Then compare the lives, character traits and aspirations of Allie Cole and Henry Ford.
9. What jobs represented in the museum could have been done equally as well by women? What jobs now have women employed? Contrast woman’s role in the 1800’s and today. Why didn’t women work these jobs at that time? Why are there changes in today’s work place? Write a story about a woman who tried to do a “man’s” job in the 1800’s.

Communication Skills

1. It is the early 1900's and Brewer has been using a V-Plow to plow snow from its streets, but Bangor has been using a snowroller. List the advantages using the V-plow. List the disadvantages. Then prepare a speech to persuade the people of Bangor at a town meeting to change from a snowroller to a V-Plow.
2. You live in a small town of Kenduskeag just outside the city of Bangor. Kenduskeag has a hand pumper for its fire equipment. Sometimes during a large fire your town has to ask Bangor for help because it has a steam pumper. Why did mostly cities have steam pumpers? What were the advantages of a steam pumper? Debate why as a small town you should have a steam pumper added to your fire equipment.
3. Design an ad for a catalog page to sell one item you have seen in the museum. Write a short description of the item. Be sure to use words that will help sell it. Include a picture.
4. Pretend you are living in 1910 in Bangor, Maine. Write to the town officials in a city in another state with a similar climate. Tell them about your snow removal equipment. Be proud of your "modern" technology and tell them the advantages.
5. Write a letter to a pen pal pretending you are living in Maine at the turn of the century. Tell them about a fire you witnessed. Be sure to include a description of your town or city's fire fighting equipment.
6. A diamante is a seven-line poem contrasting two nouns.

Noun (antonya)	baseball	Fire Engine
adjective, adjective	excitement, swift	_____
Verb(-ing or -ed), verb, verb	throwing, catching, hitting	_____
noun, noun, noun, noun	bat, glove, helmet, pads	_____
verb, verb, verb (Describes a noun in line 7)	passing, receiving, running	_____
adjective, adjective	rough, strenuous	_____
noun (antonya)	football	Snowplow

7. You are visiting your grandparents for the summer in Aroostook Country. Write a letter to your parents and tell them about some of the equipment you use to help with potato farming.
8. Pretend you are a woodsman during the late 1800's and write a dairy entry telling what one day in your life was like. (Same writing idea could be applied to an ice cutter, fireman, truck driver, etc)
9. Create an original picture book similar to *The Little Engine That Could*, but call it *The Little Snowplow That Could*, or create an original picture book entitled *Mike Mulligan and His Horse Fire Truck*.

10. Create a comparison chart like the one below and compare three similar vehicles. Write a TV commercial with one of these vehicles as your topic.

	Name of Vehicle #1	Name of Vehicle #2	Name of Vehicle #3
Similarities			
Differences			
Advantages			
Disadvantages			

11. The items in the Cole Museum were contributed by many different people. Pick one item in the museum. Who donated it? Pretend you are Galen Cole and write a thank you letter. Be sure to include why it is important to the museum's collection.
12. Now pretend you are someone who wants to donate an item to Cole Museum. Write a letter to Galen Cole convincing him to accept the item. You may wish to re-read the copy of the Museum's purpose and goals.
13. Again, let's change the scene. You are Galen Cole and you desperately want an item you've seen in someone's barn. It would be the perfect addition to your museum's collection. Write a letter to the owner convincing him/her to donate that item.
14. It is in the future and you are riding in a space vehicle when something malfunctions. Suddenly the ship lands and you find yourself on Earth in Maine during the early 1800's. List some children's toys you may have seen. Write a story about one of them.
15. After reading *From The Mixed-up files of Basil E. Frankweiler* by E.L.Konigsburg, write a survival story of your own. How would you survive in Cole Museum for a week?
16. You want to apply for a job in the woods as either a cook, cutter, or log roller. Pick one. What skills would you need? Are there any character traits you would need? What previous experiences would be needed? Write a resume applying for one of the positions.
17. The 1925 camper you saw in the museum is an early version of our recreational vehicles (RV). How would a trip in 1925 be different from a trip in 2000 in a motor home? Think about conveniences, distances, road conditions, and purposes. What would you have with you today as a student that you could not have taken then? Show your information through a news article or a television show.
18. Write to the donor of any one item in the museum. Ask him/her for the reasons they donated the item to the Cole Museum.
19. There are many sleighs on display at the museum. A carpenter who made sleighs had to be very skilled. When making a sleigh, what requirements and considerations did the carpenter need to use (materials, shape, of runners, height, clearances...)? Design a horse drawn sleigh of the 1890's. What would you use for materials and design? Think about how automobiles have changed in shape. What part of the sleigh's design would you change and why? Draw your design. Include a description with your reasons for materials and design.

20. Sleighs were made in the 1800's. Complete the following chart. Then write a fictional story to include one of these sleighs.

Sleighs	Uses	Style/Design	Other
Racing Sleigh			
Semi-speed			
Single			
Double			
Swan Cutter			
One-Horse Pung			
Sweetser Pung			
Box Pung			

21. Take a trip down Cole Avenue. Draw pictures showing the development of Coles Express from the Coles' Freight Wagon to the Tank Van. Did each truck serve the same purpose? Label your picture accordingly. Design a new truck for the 21st century.

Nowadays there is a great controversy concerning trucks hauling three trailers. Research the issue and debate.

22. An oxcart has a wooden axle and is the oldest piece of equipment in the museum. Write a journal entry from the point of view of the oxcart on its trip from Brazil to the Cole Land Transportation Museum.
23. Read the *Box Car Children* series. The freight car purchased from Maine Central Railroad could be your home. Write about one of your adventures.
24. Read a book about a caboose. Write a story about what life would be like living in a caboose. Draw a picture of the inside of a 1940 caboose and its "conveniences". What would you include for your "conveniences"?
25. If you want to be a guide for the Cole Museum, what section would you choose to be an expert? What particular item from that section would you want to be very knowledgeable about? Write your dialogue that you would give to visitors as they visit the museum.
26. Pretend you have just seen a dentist poster in 1897 announcing when and where the dentist is coming. Draw this poster.

The dentist, Dr. Henry Mansfield, traveled with his chair and equipment, including a pedal-powered drill. He traveled to the towns of Columbia Falls, Addison, Machiasport, and Harrington in Washington Country. Write a story about waiting to visit Dr. Mansfield.

27. Imagine that you can travel back in time to personally interview Alvin Lombard, the inventor of the bulldozer track. Make a list of questions you would ask. Write answers from the inventor's point of view. Then write a news report or a feature story based on this imaginary experience.
28. Pretend that one item from Cole Museum is going to disappear forever in five days. You have just that long to figure out how it works so you can reinvent it. In writing, describe what the item looks like, how it was made, and how it works.

Glossary

Anvil	A block of iron on which metals are hammered
Axle	The shaft or bar on which a wheel turns
Ballast	Weights used for balance on a ship
Blacksmith	A man who works with iron
Bobsled	A long sled with two sets of runners used to carry several people or heavy loads, for example, log
Boxcar	Enclosed freight car
Caboose	The car at the end of the train in which workers can work, cook, rest, and sleep
Chariots	Vehicles with two wheels drawn by horses used for racing
Cletrac	Cleveland Tractor Company
Clydesdale	The name of a large horse
Cobblestone	Rectangular granite block used to build roads
Cookie Cart	A movable cart used to transport cookies
Cordwood	Logs cut in four foot lengths
Diesel	An engine that burns oil cylinders
Endless Belt	A rolling chain for the lags on any vehicle (invented by Alvin Lombard of Waterville)
Forge	A place that heats metals for shaping
Grindstone	A wheel of stone used to sharpen tools
Hand Car	Man driven car used on the railroad
Harness	Arrangement of straps by which an animal is driven and hitched to a vehicle
Hearse	Vehicle for carrying a casket for a funeral
Lantern	A lamp with a handle for carrying
Museum	A building in which interesting objects are collected and displayed
Oxbow	A wooden collar around the neck of an ox
Peavey	A tool used to move heavy logs
Prairie Schooner	Covered wagon used by pioneers on the western prairie

Pung	A box sleigh
Pumper	A firefighting truck
Road Grader	Road equipment used to smooth rough roads
Shim	A block of wood to level railroad ties
Ski-doo	A mechanical snow sled
Sleigh	Vehicle on runners used on ice and snow
Spittoon	A container for spit
Spoke	Wood (or metal) that connects the hub of a wheel to its rim
Sprayer	A machine used to spread chemicals on plants
Spud	A tool used to debark trees
Transportation	Carrying or being carried from one place to another
Wand	The "Y" shaped rod that held messages for the railroad engineer
Wheelbarrow	Vehicle with a wheel at one end and two straight handles at the other, pushed by hand