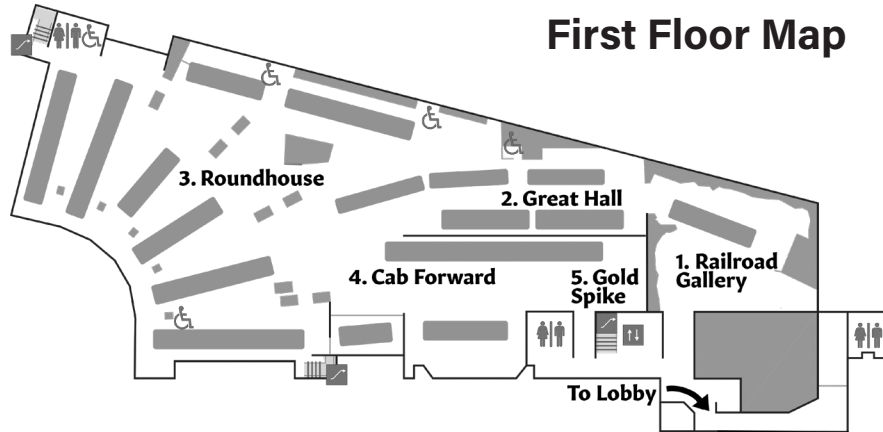


The Transcontinental Railroad connected Sacramento to the East Coast so that people and goods could travel easily.



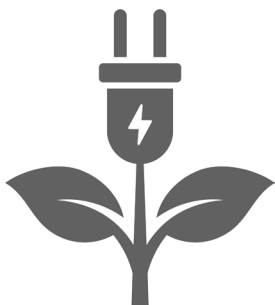
Directions: Go to each numbered area and complete the boxes.

1. The Railroad Gallery showcases the different people, tools, and skills that made the dream of a Transcontinental Railroad a reality. The Chinese Railroad Worker's Exhibit depicts a construction site on the Transcontinental Railroad. Study *The Chinese Worker* panel. What were three ways that Chinese railroad workers were able to stay relatively healthier than other railroad workers? (Hint: the panel screen content rotates.)

1.
2.
3.



2. The Great Hall is home to many historic train cars, including the *Gold Coast*. It was a privately owned car that was remodelled into a home with a bedroom, parlor, kitchen, and more. All of the appliances run on fuel generators. Based on your observations, how would you change the appliances on the *Gold Coast* to run on solar, hydro, wind, or other forms of renewable energy?



3. The Roundhouse is where steam locomotives were repaired and stored. The Museum's roundhouse also displays train cars. Explore the refrigerator car, *St. Hyacinth*, *Cochiti*, and the Railway Post Office (RPO). Based on your observations, write the solution to each railroad engineering problem below.

Problem in the refrigerator car: Fruits and vegetables needed to stay cool and fresh during transport.

Solution: _____

Problem in the *St. Hyacinth*: Train passengers needed to sleep during late night train trips.

Solution: _____

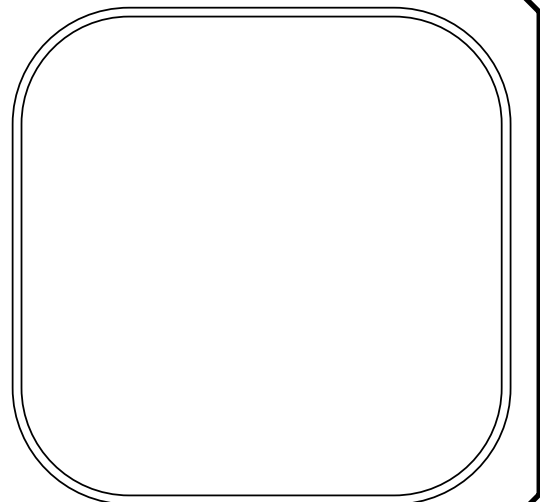
Problem in the *Cochiti*: The cabinet doors in the kitchen needed to stay shut while the train moved.

Solution: _____

Problem in the Railway Post Office: Post office clerks needed to grab bags of mail while working inside of a moving train car.

Solution: _____

4. The Cab Forward (Southern Pacific No. 4294) is the largest locomotive in the museum. Its brakes and wheels tended to overheat when going downhill, so the engineer had to stop often to let them cool. Based on your observations, create an invention that could help cool the wheels and brakes. Draw or describe it below.



5. The Gold Spike was used during a celebration of the completion of the Transcontinental Railroad. However, it was not the only ceremonial spike used during the celebration. Read the *Four Spikes* panel. Circle all of the metals that were used to create the other three ceremonial spikes.



Gold

Copper

Silver

Tin

Iron

Aluminum

Titanium

Brass

Nickel