

# TRANS CANADIAN RAILWAY



Still one of the largest railroads in history!

- How long is the Trans Canadian Railway?

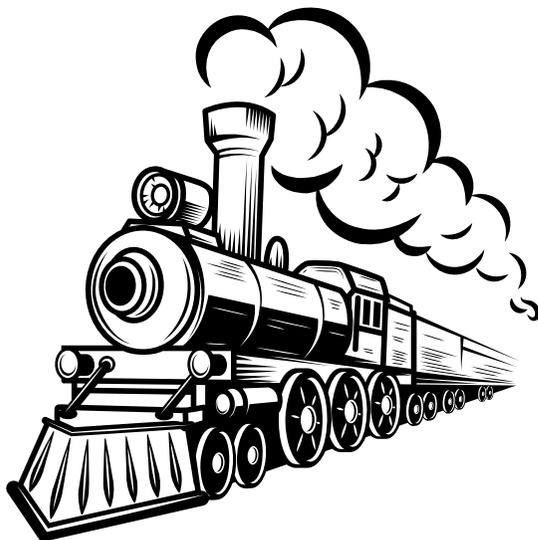
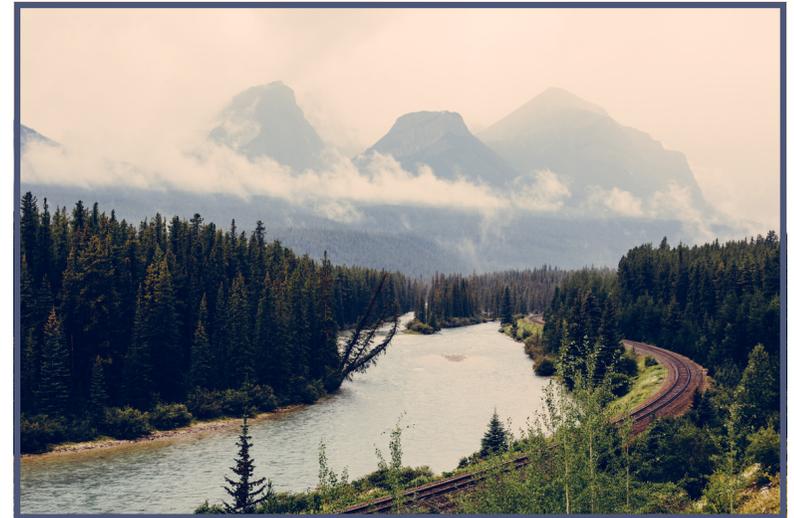
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- When and where was the railway finished?

\_\_\_\_\_

- What was the biggest challenge in the construction? \_\_\_\_\_

- The track at the hill was 3 times steeper than a regular track. What would happen to the locomotives? \_\_\_\_\_



- Why was going down the hill even more dangerous? \_\_\_\_\_

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- How was the issue solved? \_\_\_\_\_

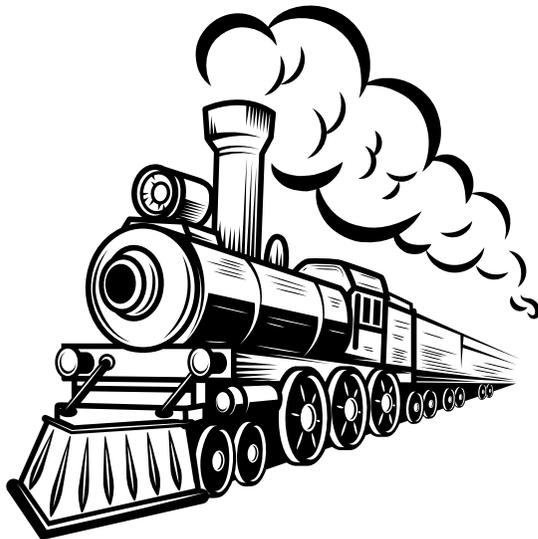
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# TRANS CANADIAN RAILWAY



Still one of the largest railroads in history!

- How long is the Trans Canadian Railway?  
5,000 Km.
- When and where was the railway finished? It was completed in 1885 in Craigellachie.
- What was the biggest challenge in the construction? A place called Big Hill.
- The track at the hill was 3 times steeper than a regular track. What would happen to the locomotives? The Engines would explode from the strain.



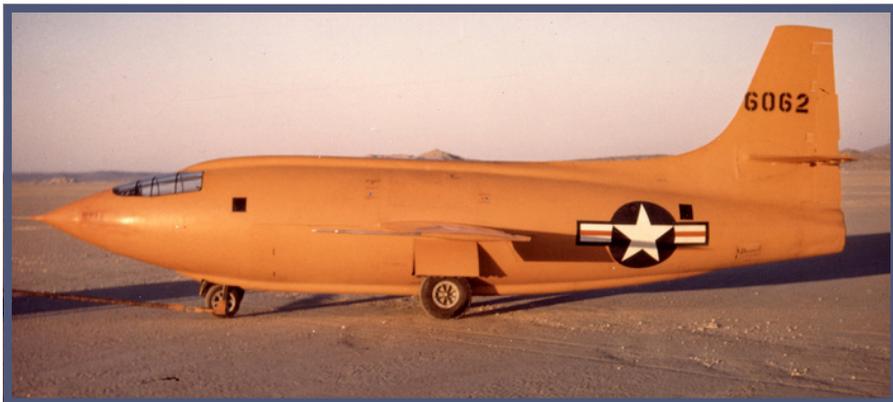
- Why was going down the hill even more dangerous? The breaks would have a hard time engaging, and the train would be going too fast to make the curve, plunging into the canyon below.
- How was the issue solved? By tunnelling through the mountains creating spiral tunnels.

# Bell X-1

The first plane to break the sound barrier.....on purpose.



- The first plane to break the sound barrier by mistake was the P47 Thunderbolt.
- Technically, to be considered a plane, the aircraft has to be able to take off on its own.
- The pilot of the Bell X-1 was Chuck Yeager.
- Yeager was a fighter ace in WW2, meaning he shot down more than 5 planes.
- The Bell X-1 broke the sound barrier on October 14, 1947.



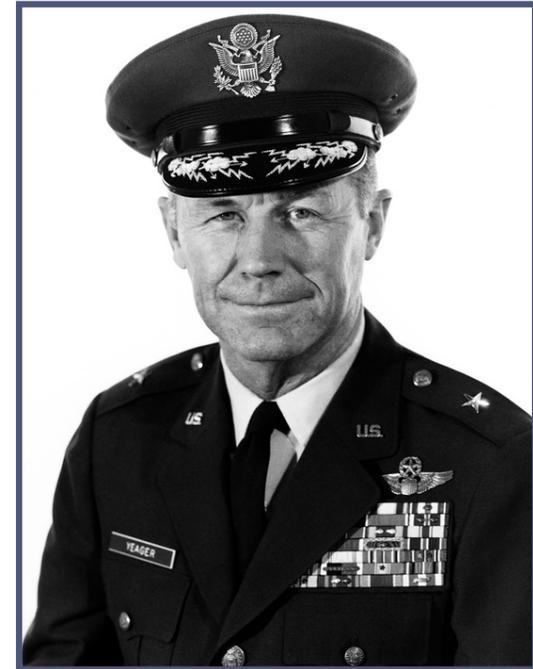
- Yeager nicknamed the plane the Glamorous Glennis after his wife.
- Why shouldn't he have flown? He broke his ribs falling off a horse a few days before and had to smuggle a broomstick to close the hatch.
- Yeager died at the age of 97 on December 7, 2020.

# Bell X-1

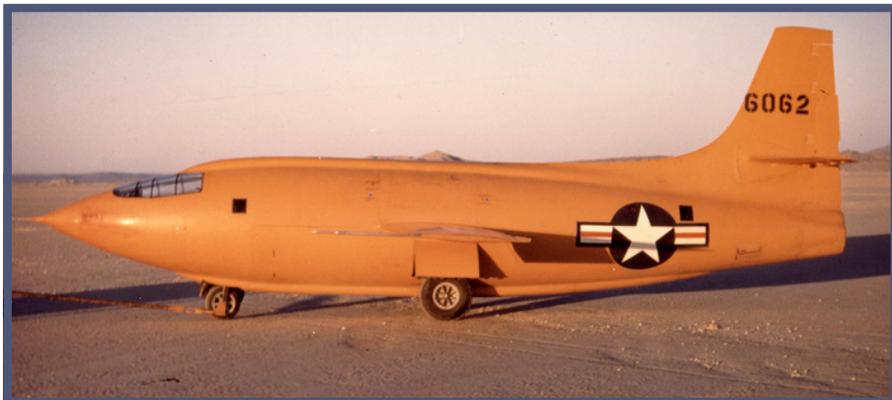


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# Manhattan Project



Most people didn't know what it was.....

- Who warned the U.S. about Germany's experiments? Albert Einstein.
- What element were they experimenting with? Uranium.
- What was the name of the lab that worked on the Manhattan Project? The Los Alamos lab.
- Who was the head of the U.S. lab? J. Robert Oppenheimer.
- How many people worked on the project? How much did it cost? About 100,000 people worked on it, and it cost about 2 billion dollars!
- What was the name of the bomb the project produced? When was it dropped? The Trinity bomb was dropped on July 16, 1945.
- What did the bomb create? Trinitite, a green glass made from the sand fusing together.



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