Grade 7 Science – Introduction Videos

Tacoma Narrows Video

2.

3.

4.

5.

6.

7.

8.

9.

https://www.youtube.com/watch?v=KVc7oBKzq9U

While watching the video, answer the questions.

1. The Video starts out talking about the construction of what bridge?

Name:

Golden Gate bridge in San Fransisco, California
What year was it finished?
1937
How many cars cross it each day according to this video?
100 - 150,000 cars per day
Where is Tacoma Narrows? Washington State (just north of San Francisco)
What happened soon after it was opened? und lating dering wind
What was the bridge nicknamed?
Galloping Gertie
On November 7, 1940, what happened?
The undulating changed to a toursting motion
the wind coused escillation that coused:
What did engineers to do figure out the cause? scale models in wind tonnels computer models
When did the scientists discover the cause?
1992 52 years later Von Carmen vortex
Resonance

1.	
	"pressurized extenders Booming through the
	air 10 km above the ground."
2.	What are some of the things that the engineers have to concider when designing a new airplane?
3.	take into account the desired passenger capacity -how and where pasts the range and speed of the plane regular regular for landing and narigating amposts fright controls, for landing and narigating amposts What do they use to test the aircraft parts?
	wind tunnel
	compreter models
4.	Scale models Shoot dead docks What do they do to test engine's ability to withstand birds hitting it in flight? Shoot dead docks into angules
5.	What is carbon fiber? Carbon tape composite infried
6.	What kind of testing is done on the new prototype testing?
	test flights by in flight testing O coaded to see some thered to bring the file affected -cold weather bot meather broke affected on low speed talker of the many besteries of free test flight How many Airbus 350's can be produced per month?
7.	How many Airbus 350's can be produced per month?
	10/month
8.	What are some of the Experts?
_	What are some of the Experts? experts - sent experts - wing floy experts - wing floy experts - wing floy experts - wing floy experts - carbon fiber recycling experts - carbon fiber recycling experts
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