

PENNY BRIDGE STEAM CHALLENGE



Penny Bridge Challenge



YOUR CHALLENGE:

- *Find 50 pennies in your home.
- *Build a bridge using only 50 pennies.
- *Your bridge must stand on its own.
- *Try to make the bridge at least 3 centimeters tall and 3 centimeters wide.
- *It should stand for at least 10 seconds!

ASK:

How can I create a bridge using only pennies?

IMAGINE:

Think about how you will design your bridge.
How will you balance the pennies to make the bridge sturdy?



CREATE: Create your bridge and sketch your design.

Did your bridge stand on its own for at least 10 seconds?

Yes ____ No ____

IMPROVE: What can you do to make your bridge stronger?

Sketch your second bridge.

Did your bridge stand on its own for at least 10 seconds?

Yes ____ No ____

Use your best design that will support a small action figure!

Sketch your design.

Penny Bridge- Extension Menu

<p>Engineering Try making a taller bridge using only pennies.</p>	<p>Technology & Math Research famous bridges and create a chart that includes the length and height of each one.</p>	<p>Art Draw a bridge and outline it in black marker. Then using watercolors, paint the background to create a silhouette.</p>
<p>Social Studies Research and list as many facts you can about the penny.</p>	<p>Engineering Try creating a bridge using other types of coins. Take a picture!</p>	<p>Math Examine your 50 pennies carefully to look for the year. Create a tally chart of how many are from each year.</p>
<p>Writing Write a story about the last time you crossed a bridge.</p>	<p>Social Studies Choose at least 10 different bridges and research to find out when they were built. Create a timeline.</p>	<p>Engineering Use coins to create a model of a famous bridge. Or use your 50 pennies to build something else!</p>

NEED SOME HINTS?

<https://www.bing.com/images/search?q=making+a+penny+bridge&FORM=HDRSC2>

<https://www.bing.com/videos/search?q=how+to+make+a+penny+bridge&&view=detail&mid=A47DAB8985BDC91B1873A47DAB8985BDC91B1873&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dhow%2Bto%2Bmake%2Ba%2Bpenny%2Bbridge%26FORM%3DHDRSC3>

Send Us Pictures!

Your STELLAR teachers want to see your pictures!

Please email pictures of your parachutes to your school STELLAR teacher.

School	STELLAR Teacher	Email Address
Covert	Mr. Figaro	cfigaro@rvcschools.org
Hewitt	Ms. Flanagan	cflanagan@rvcschools.org
Hewitt/Wilson	Ms. Jorde	kjorde@rvcschools.org
Riverside	Mrs. DeFranza	adefranza@rvcschools.org
Watson	Mrs. Montemarano	pmontemarano@rvcschools.org
Wilson	Ms. Lohr	llohrr@rvcschools.org
Wilson	Mrs. Messina	mmessina@rvcschools.org