

## Lesson: What makes bridges so strong?

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<b>arch bridge</b>	a bridge with a curved arch in the center
<b>balanced forces</b>	two equal forces that push or pull in opposite directions so that the object doesn't move
<b>design</b>	to make a plan for creating or doing something
<b>engineer</b>	a person who uses science to come up with solutions to problems
<b>force</b>	a push or a pull
<b>model</b>	a pretend version of something that scientists use when the real thing is too big, small, or complicated to work with
<b>pillar bridge</b>	a bridge that is supported by thick poles
<b>pull</b>	to move an object toward you
<b>push</b>	to move an object away from you
<b>suspension bridge</b>	a bridge where the weight is pulled up by ropes hung from tall poles
<b>truss bridge</b>	a bridge with triangular supports
<b>unbalanced forces</b>	two forces that push and pull in opposite directions where one force is greater than the other so that the object moves