

Valentine's STEM Challenge Cards





Valentine's STEM Challenge

Design a Heart-Shaped Parachute:
Can your parachute safely drop a Valentine from a specific height?



Valentine's STEM Challenge

Candy Heart Towers:
Build the tallest tower using only candy hearts and toothpicks.



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Love Boat Challenge:
Construct a boat using materials like foil and see how many heart candies it can hold before sinking.



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Valentine's Day Bridge:
Create a sturdy bridge using craft sticks and tape to support a bag of Valentine treats.



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Heart Circuit Challenge:
Build a simple electric circuit with LED lights shaped like hearts.



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Love Bug Robots:
Design and build a love bug robot using small motors and recycled materials.



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Valentine's Day Catapult:
Build a catapult to launch Valentine candies the farthest distance.



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Cupid's Arrow Launcher:
Create a device to launch Cupid's arrows accurately towards a target.



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Heart-Shaped Raft:
Build a raft using materials like straws and plastic wrap to carry a load of candy hearts across water.



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Valentine's Day Marble Run:
Construct a festive marble run with twists, turns, and heart-shaped obstacles.



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Sweetheart Slingshot:
Build a slingshot using rubber bands and craft sticks to launch candy hearts at targets.



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Balloon Cars:
Create a balloon-powered car that leaves heart-shaped prints as it moves.



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Valentine's Day Geodesic Dome:
Construct a geodesic dome using gumdrops and toothpicks.



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Love Potion Chemistry:
Mix safe household ingredients to create a colorful, bubbling 'love potion.



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Heartbeat Monitor:
Build a simple heartbeat monitor using a sensor and graph the heartbeats of family members.



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Valentine's Day Straw Rockets:
Design and launch rockets powered by straws and air pressure.



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Loveable Lava Lamp:
Create a Valentine-themed lava lamp using oil, water, and Alka-Seltzer tablets.



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Heart Anatomy Model:
Explore the anatomy of a heart by crafting a model using playdough or clay.



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Valentine's Day Coding Challenge:
Introduce coding concepts by programming a Valentine's Day-themed animation on a computer or tablet.



Valentine's STEM Challenge

Heart-Shaped Sun Catchers:
Craft sun catchers using colored tissue paper and create a beautiful Valentine's Day display.



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Valentine's Day Marble Maze:
Construct a challenging marble maze using cardboard, paper, and other craft materials.



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Valentine's Day Windsocks:
Create Valentine's Day windsocks using paper, streamers, and string. Test them outdoors to see how they dance in the wind.



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Valentine's Day Pulley System:
Build a pulley system using simple household items to lift and transport Valentine's Day treats or decorations.



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Love Boat Floatation Challenge:
Design and build a boat using materials like foil and plastic to see how much weight it can carry without sinking.