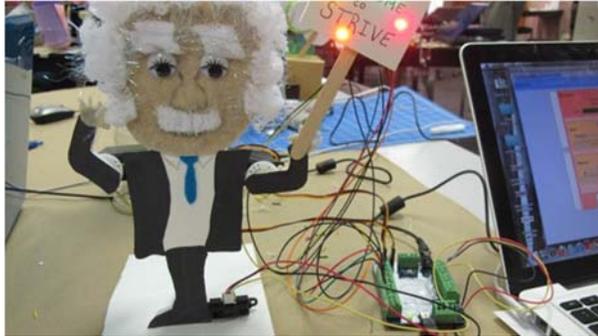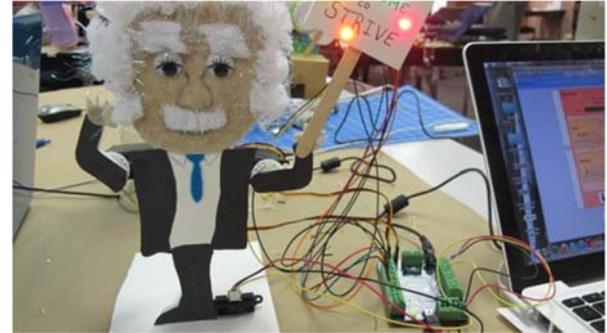|	
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design and build customized, functional new musical instruments	create a cardboard arcade of self-designed arcade games
sew costumes for a class play	design and build a catapult

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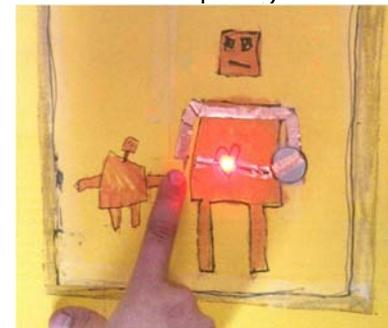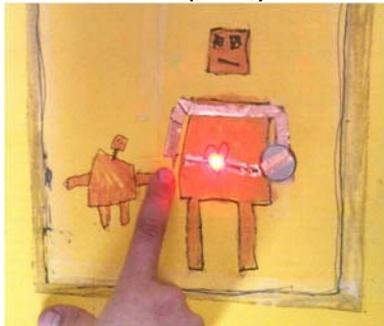|	
design and 3D print personal accessories, like jewelry or a pencil case	design and build a monument to an important historic figure, using a variety of tools
build and test prototypes and solutions to real classroom or personal pain points	use LEDs and buttons to let your audience interact with your poster or display
use a green screen to create a video of self on the moon or in a specific ecological setting	create a stop-motion video of an important historical event, or a scene from your life

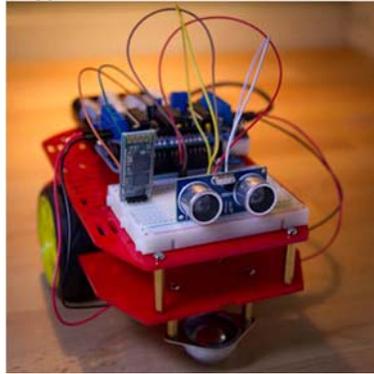|	
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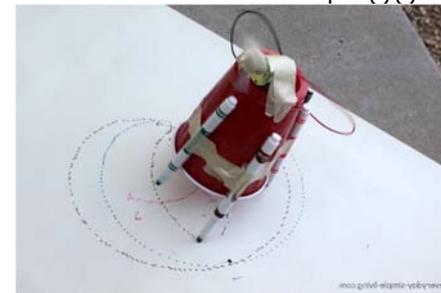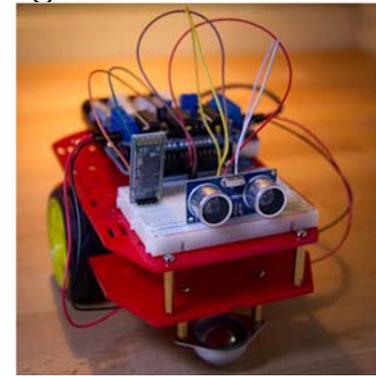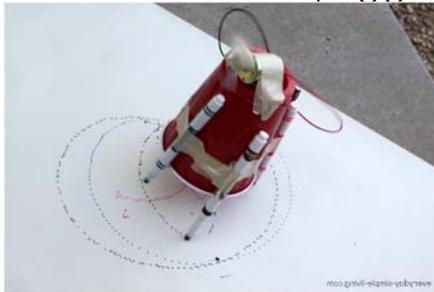|	
build and program a self-navigating robot 	create a custom "Guess Who?" game board for historical figures
design and 3D print a manipulative to demonstrate a math concept 	design and build a variety of little machines that use motors to draw squiggles/scribbles
build a working Rube Goldberg device to do a simple task 	build a mini sailboat that will travel fastest under same wind

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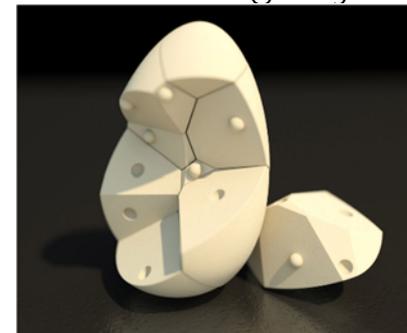| design and build a marble run	design and laser cut pieces to construct a "dream house"
design and build a custom, functional video game controller	design and program a custom video game
design, prototype, and test solutions for community issues as service learning	design and laser cut custom tangram shapes / notch building toys / puzzles

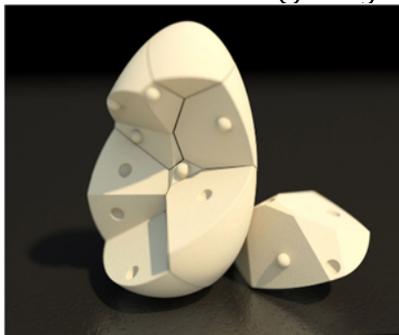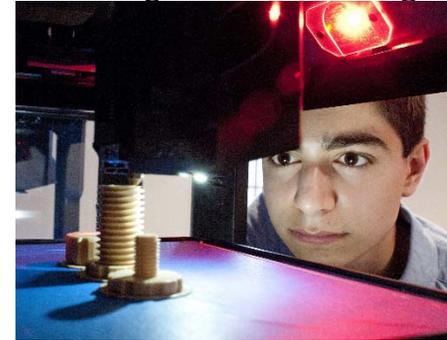| design and laser cut pieces to construct a "dream house"	design and build a marble run
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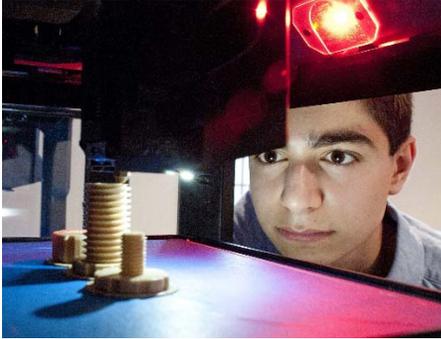|	
create a squishy "Play-doh" sculpture, lit with LEDs 	design and 3D print custom pieces for a self-designed boardgame
make a pop-up card that also lights up and/or sings when opened 	build devices from simple materials to solve a problem, like a gingerbread man trap or a gummy worm rescuer
sew self-designed puppets for a personal short play 	design and program a "Choose Your Own Adventure" computer simulation of a series of events, like a branching evolutionary tree

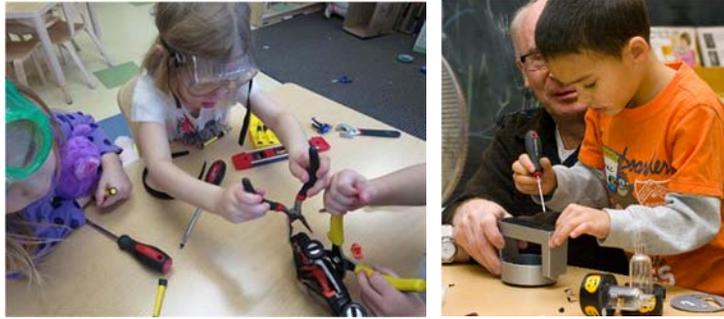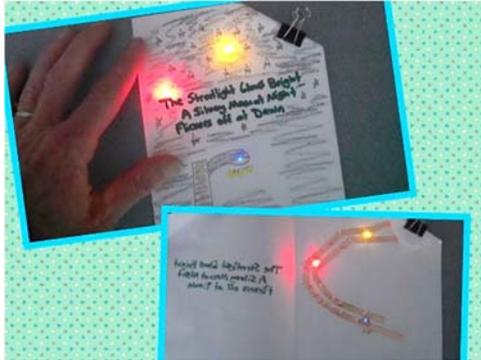| design and 3D print custom pieces for a self-designed boardgame	create a squishy "Play-doh" sculpture, lit with LEDs
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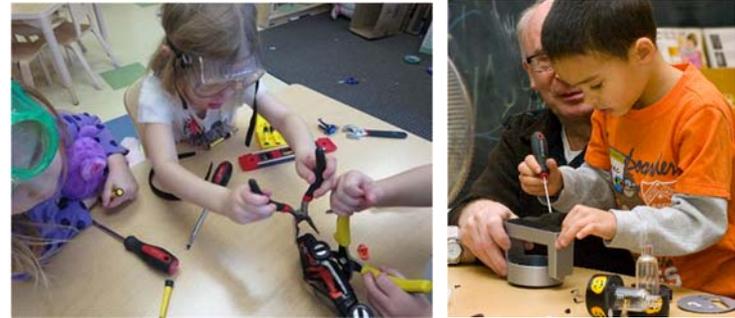|	
take apart and observe machines, like a keyboard or a handvac 	build a little mechanical machine ("automata") using pre-made gears
illuminate a poem or short story with LEDs 	record audio of self explaining an assignment
hand-make personal gifts for family and friends 	create a mold for pouring custom-shaped chocolates

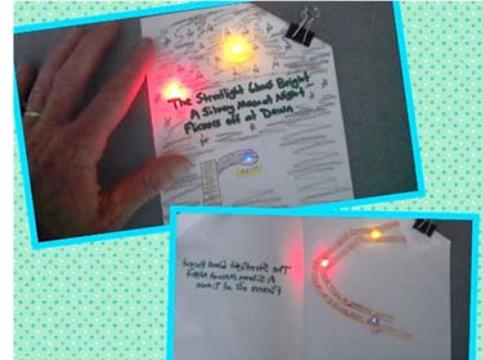|	
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build and compare speakers using a variety of different materials	build the tallest tower out of a constant set of materials
build an electromagnetic motor	design and sew a custom shirt without a purchased pattern
design and build elements to put together to create a "class community" model, using a variety of tools	3D design building block or other assembly toys (like fruit/veggie decorations)

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