

Correlation between Creative Learning Activity content and Science Concepts

Creative Learning Activity Titles	Position, motion	Forces	Light, heat, electricity	Models	Computation	Energy / energy transfer	Design & Systems	Nature of Science	Special
Aerobies and Planes	X	X		X		X	X	X	Forces of flight
Aluminum canoes	X	X		X	X		X	X	Buoyancy
Balancing Bob	X	X		X			X	X	Gravity, balance
Balloon-powered boats	X	X		X	X	X	X	X	
Balloon-powered cars	X	X		X	X	X	X	X	
Belt-drive cars	X	X	X	X	X	X	X	X	Simple machines
Boomerangs	X	X		X		X	X	X	
Building bridges		X		X	X		X	X	Problem solving
Cable cars	X	X		X		X	X	X	
Catapults	X	X		X	X	X	X	X	History: castles
Chemical Rocket	X	X		X	X	X	X	X	Chemical reactions
Electric boats	X	X	X	X		X	X	X	
Electric cars	X	X	X	X	X	X	X	X	
Electric paddle boats	X	X	X	X		X	X	X	Buoyancy, circuits
Fog horn		X		X			X	X	Sound
Frisbees	X	X		X		X	X	X	Forces of flight, spin
Glove-A-Phone								X	Sound
Gravity boats	X	X		X		X	X	X	Gravity
Gravity cars	X	X		X	X	X	X	X	Data recording, analysis
Hand-o-copters	X	X		X		X	X	X	Forces of flight
Kaleidoscopes		X		X			X	X	Light and reflection
Marble maze	X			X			X	X	Creative design
Motor Duck	X	X	X	X		X	X	X	Problem solving
Paper helicopters	X	X		X			X	X	Forces of flight
Pirate Ships of the Caribbean	X	X		X		X	X	X	History: sail boats
Plane and Launcher	X	X		X		X	X	X	Forces of flight
Pneumatic blast rockets	X	X		X	X	X	X	X	Data recording, analysis
Propeller cars	X	X	X	X	X	X	X	X	Data recording, analysis
Reverse engineering				X			X	X	Critical thinking, tool use
Rocket boats	X	X		X		X	X	X	Air pressure
Rocket cars	X	X		X		X	X	X	Air pressure
Rubber band cars	X	X		X	X	X	X	X	Problem solving
Spiro graphs	X	X	X	X			X	X	Creativity
Straw flutes				X			X	X	Sound
Straw rockets	X	X		X		X	X	X	
Styrene planes	X	X		X			X	X	
Swamp boats	X	X	X	X		X	X	X	
Tops	X	X		X	X	X	X	X	
Trebuchet	X	X		X	X	X	X	X	History: castles
Titanic Triumphs	X	X	X	X	X	X	X	X	buoyancy