



# CAREER OPPORTUNITIES WORKSHEET

Wondering how to translate your expert knowledge into hands-on, interactive activities for teens? Here are a few ideas!

## SCIENCE

	Career-Related Activity Topics	Does your organization have resources?	Who can teach this skill / activity?
1	20/20 vision testing		
2	Acid Rain Effects study		
3	Acid Test: How to tell minerals apart *		
4	Air Force satellite facility		
5	Air: Is it Really There? Study		
6	Air mass collisions *		
7	Amusement Parks Rides study of the ups and downs		
8	An Arm and a leg - Bioengineering		
9	Anemometer construction		
10	Angle of heat *		
11	Antacid potency *		
12	Atomic mass of silver *		
13	Baking soda vs. baking powder *		
14	Ball Bounce Experiment		
15	Balloon staging		
16	Barometer construction		
17	Battling with Oxygen - Using gumdrops and toothpicks		
18	Benefits of Biodiversity		
19	Benford's Law *		
20	Bio-domes Project - Explore environments, ecosystems, energy flow, and organism interaction		
21	Birthday paradox *		

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22	Blackouts in large cities		
23	Blood Cell Basics		
24	Brain teasers: questions		
25	Break the Tension - concept of surface tension		
26	Bridge building		
27	Build a Jacob's ladder (high-voltage arc)		
28	Build a switch magic project		
29	Build an approximate scale model of an object		
30	Build an ohmmeter		
31	Build a photobioreactor *		
32	Bury your trash - investigate what types of materials biodegrade in soil		
33	Can you hear me now? *		
34	Capturing the sun's Warmth - thermal energy storage		
35	Charge It! Static electricity		
36	CO2 car competition		
37	Combining iodine & zinc *		
38	Construct electronic dice		
39	Cooled Off (temperature of an object cooled more by evaporating alcohol surrounded by water or air)		
40	Crystal fudge *		
41	Crystal formation *		
42	Darcy's Law *		
43	Demonstrate half-life *		
44	Demonstrate transfer of energy *		
45	Denaturing proteins *		
46	Diet & body temperature *		
47	Does chewing gum help you concentrate? *		
48	Dry ice *		

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49	Eight reasons not to explore Mars		
50	Electromagnet construction		
51	Electron charge density *		
52	Electronic wheel of fortune		
53	Emulsification *		
54	Fireproof a balloon *		
55	Fires burn in different colors *		
56	Free fall: feather vs. dime *		
57	Fungi biodiversity *		
58	Grow algae *		
59	Hand warmers turned Hot Ice Sculpture *		
60	Hand-powered winch		
61	Harvest water from fog		
62	Homemade thermometer construction		
63	How does personality influence movie preference? *		
64	Iodide in salt *		
65	Ionic vs. Covalent bonds *		
66	Is a denser fruit healthier? *		
67	Laser Jet Toner: a magnetic fluid *		
68	Light refraction *		
69	Lord Kelvin's water drop		
70	Los Alamos Nat. Laboratory		
71	Mars Rover races		
72	Measuring Velocity		
73	Missile launch		
74	Natural Attic Ventilation (engineer an attic ventilation system in which the air will be exchanged from the attic more often)		
75	Navigating the Wild Blue Yonder		

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76	Nerve tester		
77	Nervous system relay time (online test) *		
78	Oobleck: solid or liquid?		
79	Oxygen in the air *		
80	Paper circuits *		
81	Paper rockets		
82	Participate in a Super Activity:		
83	Photosynthesis rates *		
84	Plant growth & aspirin *		
85	Polymer properties *		
86	Rainbows study		
87	Ranschburg effect *		
88	Robot Movement (sound/touch sensor circuitry-sequential or random movement?)		
89	Rocket car		
90	Rubber band racers		
91	Salt water energy *		
92	Science of sound		
93	Soapy surface tension *		
94	Soda Pop "Fireworks"		
95	Soda Bottle Greenhouse		
96	Solar oven meal *		
97	Toothpick Bridge		
98	Use of fiber optics		
99	Viscosity, surface tension and temperature *		
100	Water Purification Technique Study		
101	Windmill windup		

\* www.education.com - science fair project ideas