

# K-8+ STEAM ACTIVITIES KIT

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### GUIDE

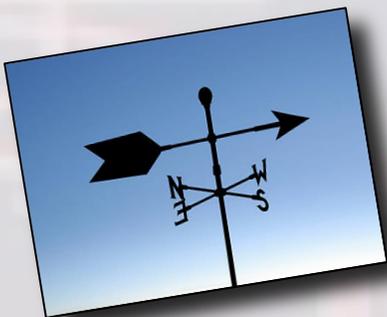
- Instruction Packet for Parents
- Contents of the Kit, Project Overview and Instructions
- Accommodations and Modification Suggestions
- Sample Daily Schedule
- Sample Student Log of Activities
- Free Email Support

### ACTIVITIES

- THE SCIENCE OF FLIGHT:** Learn the basic principles of flight and the *how-and-why* an airplane flies! Build a pre-fab model airplane while learning its various parts and how these parts contribute to flight. Fold your first paper airplane and test for flight worthiness. Following your practice construction, you will design your own airplane in preparation for a competition airshow!
- SOUND: VIBRATION AND WAVES:** Explore how sound is made and how it travels. Construct three fun projects where you can SEE the effect of sound, HEAR sound, and MAKE sound.
- WEATHER WATCHING:** Explore the water cycle by making your own solar bowl! Create a wind vane compass and see how wind direction can forecast local weather conditions.
- CENTRIFUGAL AND CENTRIPETAL FORCES:** Exploring the forces that push and pull. See inertia at work inside a balloon and make a fidget spinner.
- POTENTIAL AND KINETIC ENERGY:** Explore the conservation of energy. Construct two famous toys that show for every action there is an opposite and equal reaction.

### MATERIALS

- THE SCIENCE OF FLIGHT:** airplane model, tape measure, bendable straw, ping pong ball; pre-designed paper glider, 2 blank papers for your own design, paper clips
- SOUND: VIBRATION AND WAVES:** plastic wrap, rice package; paper cups, paper clips, yarn; fine-tooth comb, wax paper square
- WEATHER:** plastic wrap, large rubber band, 3 pennies; 2 heavy paper plates, new pencil with eraser, straight pin, plastic straw, index cards, ruler, clay; compass
- CENTRIFUGAL AND CENTRIPETAL FORCES:** 2 transparent balloons, several pennies, a hex nut; index cards, toothpick, straight pin
- POTENTIAL AND KINETIC ENERGY:** 6 marbles, twine, popsicle sticks, plastic bottle caps, small bolt and nut set, 40" string
- INCLUDED IN YOUR BACKPACK:** scissors, mini glue gun, ruler, markers, *and special reward prizes!*



# K-8+ STEAM ACTIVITIES KIT

**ORDER FORM**

Number of Backpacks	
Total Cost of Backpacks at \$99 each	\$
15% Shipping and Handling	\$
Pick Up at Albuquerque Warehouse	Free
<b>TOTAL</b>	<b>\$</b>



**ALL ITEMS WILL BE PACKAGED IN A CANVAS BACKPACK**

## PAYMENT INFORMATION

COMPANY CHECK # \_\_\_\_\_  PO # \_\_\_\_\_

VISA  MC  AMEX Credit Card No: \_\_\_\_\_ Expire Date: \_\_\_\_\_

Name on Credit Card: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Mailing/Shipping Address:

\_\_\_\_\_

City

State

Zip

Submit Order to: **Sundance Educational Consulting, Inc.**  
By faxing to **(505) 867-1035** or email to **Sundance@spinn.net**



**SUNDANCE EDUCATIONAL CONSULTING, INC.**  
1 CAMINITO TRAIL, PLACITAS, NM 87043



State of New Mexico - County of Sandoval  
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