

Catch science on a spring breeze with Hands On Science

Hands On Science (HOS) classes are now enrolling! During eight, one-hour classes your child will explore science in a fun, hands-on environment.

Hands-on activities include:

- tooting tunes in a test tube
- flying boomerangs, straw jets and gliders
- creating waves
- playing a mystery sound game

Science explorations in Buzzers and Boomerangs include:

- experimenting with changes in vibration to make music
- testing for air resistance and lift
- · investigating wave motion
- comparing sound travel through solids and air

HOS Adult Leaders say

"The flutter fish evoked questions about 'catching the wind' and surface size of the object!"



"I asked what force caused things to move toward the earth. One child said, 'I know. It's called grabity. You know, it grabs!"

During each class, your child will actively participate in each activity with his/her own hands-on materials. Questions asked during class will challenge your child to think critically about the world around him/her as he/she explores sound and flight. After each class your child will bring home materials for display, discussion and further discovery.

Sessions now enrolling – register today!



HANDS ON SCIENCE A Program of MCCPTA-Educational Programs, Inc.



This project was supported in part by the National Science Foundation. Opinions expressed are those of the authors and not necessarily those of the Foundation.



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Hands-on activities include:

- making your own whistle, whistle
- flying helicopters, parachutes and kites
- creating patterns with a pendulum
- building a model of your ear

Science explorations in Air-O-Dynamics include:

- experimenting with changes in vibration to make sound production
- comparing pendulum swing data
- investigating air resistance and flight
- exploring the anatomy of hearing

HOS Adult Leaders say:

"After a class on lift, a child was telling the group how he noticed a bug flying and asked if it worked like an airplane. A lengthy discussion followed."



"This should be called 'Ears On Science' because we listen to each other's ideas!"

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OSCILLATIONS Waves and Rhythms, The Physics of Sound and Flight



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Hands-on activities include:

- making and flying a spectacular kite
- playing music on straws
- "seeing" sound
- building a working lung model

Science explorations in Oscillations include:

- experimenting with vibration to make sound production
- creating a calibrated musical scale
- investigating lift and flight with planes and kites
- exploring the anatomy of the lung

HOS Adult Leaders say:

"The children were very interested in the biodots. When their location for the biodots didn't work, they found creative places to put them-including the ends of their noses."



"I love seeing the children using their minds to come up with creative ideas for solutions."

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