

5TH GRADE PROFESSIONAL DEVELOPMENT

LIGHT & SOUND

5TH GRADE

OHIO
energy
PROJECT



DATES, LOCATIONS AND TIMES

Dates	Location	Time
June 13	Cleveland	1:00p - 3:30p
July 27	Akron	1:00p - 3:30p
August 8	Cincinnati	1:00p - 3:30p

BENEFITS OF PARTICIPATING

- > Program and Teaching Kit **FREE** for Ohio 5th grade teachers
- > Educator curriculum and lesson plans
- > Student worksheets and assessments
- > Classroom teaching kit (\$250 value)
- > 2.5 professional development contact hours

TEACHING KIT CONTENTS

- > Materials to complete 11 hands-on light exploration labs including five sets of Laser Maze Jr.
- > Materials to complete 7 hands-on sound exploration labs including five sets of tuning forks.

REGISTER NOW

Easy online registration at
www.ohioenergy.org
For more information contact
stenney@ohioenergy.org
or **614-785-1717**

SCIENCE LEARNING STANDARDS

- > Prove how light is reflected, refracted and absorbed through various mediums.
- > Describe how light can travel through some materials including empty space.
- > Demonstrate how light energy can transform into thermal energy.
- > Demonstrate how sound is produced by vibrating objects.
- > Determine how pitch is affected by the rate of vibration.
- > Illustrate how sound travels at different speeds through different media.
- > Compare the properties of light and sound.

5TH GRADE



“The curriculum was amazing and the teaching kit made it so easy for the lessons to be hands-on which really helped my students grasp the concepts of light and sound.”

-Kendra Smith, Green Springs Elementary School

REGISTER
NOW

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ELIGIBILITY

- > Open to science teachers with a 5th grade teaching assignment for the 2017-18 school year
- > Teachers may only participate in this workshop one time



PROGRAM PARTNERS

Ohio Development Services Agency, AMP Public Power Partners