

Building Wireless Technology Literacy:

10 *Good Reasons*

3 *Ways to Do It*

Amateur Radio in Education



ARRL The national association for
AMATEUR RADIO™

10 Good Reasons to Bring Amateur Radio into Your Classroom...

1

*Communication Arts
Language Arts*

2

Computer Science

3

Foreign Languages

4

*Mathematics:
Algebra
Geometry
Business Math
Scientific Notation*

5

Electronics Technology

6

Industrial Arts

7

*Social Studies:
World Studies
Government*

8

Science and Physics

9

Geography

10

Social Skills!

You have standards to meet...**facts and concepts to teach.**

Using Amateur Radio in the classroom is a proven and effective way to teach both fact and theory...**and align with state and national learning objectives.**

Here's why

- Amateur Radio is communication via a variety of methods across social, political, cultural, geographic and physical handicap boundaries.
- Amateur Radio integrates multiple technologies, math, science, geography, reading and writing.
- Amateur Radio encourages investigation and experimentation as a basis for understanding technical subjects.

Amateur Radio opens many doors

- Amateur Radio experiences are a motivating influence for many careers in computer science, consumer electronics, broadcast engineering, research sciences, medicine, telecommunications and more!
- Amateur Radio enriches the lives of thousands of people as a way to meet and make friends, have fun and pursue a path of lifelong learning.
- Amateur Radio provides a foundation in Wireless Technology Literacy so important to today's citizens.

3 Ways to Do It...

1

Host an Amateur Radio Demonstration.

Many local Amateur Radio groups and clubs are available to work with schools or individual teachers. Use a demonstration to springboard into math, science and language topics or customize the presentation to highlight particular areas of study. It's your choice!

2

Sponsor a School Amateur Radio Club.

Preparing students for future technologies includes mastering fundamentals. Amateur Radio clubs in schools nurture hands-on learning that sparks curiosity and provides a foundation for future exploration.

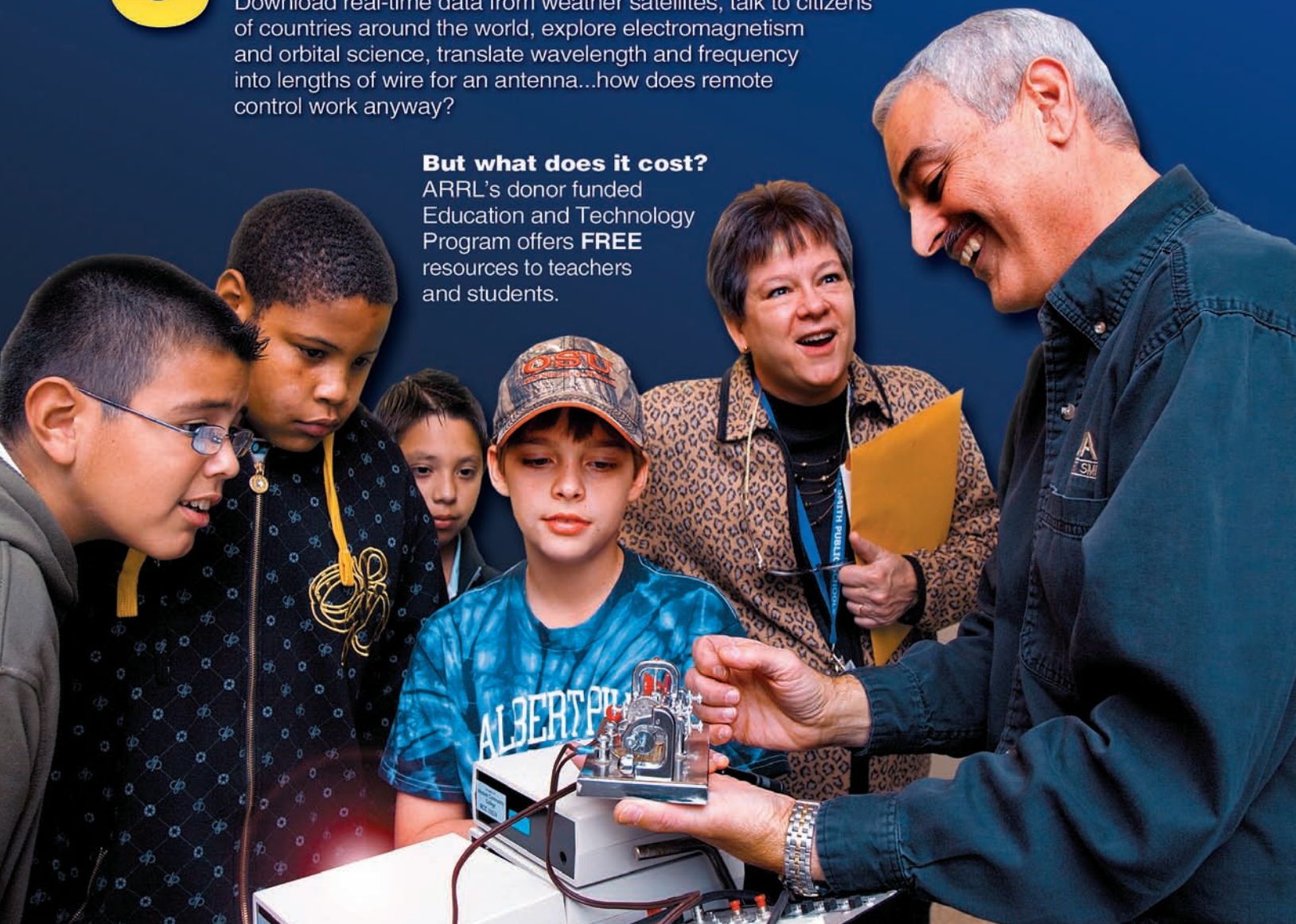
3

Integrate Amateur Radio into Your Classroom Lesson Plans.

Download real-time data from weather satellites, talk to citizens of countries around the world, explore electromagnetism and orbital science, translate wavelength and frequency into lengths of wire for an antenna...how does remote control work anyway?

But what does it cost?

ARRL's donor funded Education and Technology Program offers **FREE** resources to teachers and students.



What is ARRL?

The American Radio Relay League (ARRL) is the national membership association for Amateur Radio operators. The ARRL represents Amateur Radio interests to regulatory bodies, provides technical advice and assistance to Amateur Radio enthusiasts and supports a number of educational programs throughout the country. ARRL is a non-profit organization.

What is ARRL's Education & Technology Program?

ARRL has an outreach program to America's classrooms called the Education & Technology Program. This program promotes Wireless Technology Literacy among teachers and students by engaging Amateur Radio as a learning tool in a variety of study areas. The program is entirely donor funded and **resources are offered to schools at no cost.**

The Education & Technology Program offers three types of resources to teachers and schools.

1. **Resources for instruction, including kits and projects**
2. **A professional development opportunity, the Teachers Institute on Wireless Technology (an Amateur Radio license is not required)**
3. **Grants for school radio stations and related equipment**

Each summer ARRL offers multiple sessions of the Teachers Institute on Wireless Technology, a 4-day expenses paid seminar, in locations throughout the US. The Teachers Institute has provided teachers from elementary school to the university level with tools and strategies to introduce basic electronics, the science of radio, space technology and satellite communications, as well as weather science, microcontrollers and robotics in their classrooms.

ARRL offers grants for school radio station equipment through the ETP grant program for classrooms in the US. The application requirements are straightforward: we look for commitment from teachers and administration, a well conceived plan to use the resources to engage students and a working relationship with local ham radio volunteers who will provide mentoring support for the school.

ARRL has provided resources to hundreds of educators!

This pamphlet was provided for you by:



Want Help to Get Started?

Local: Contact a local Amateur Radio club. You can find local Amateur Radio club contact information at www.arrl.org/findaclub.

Regional: You can find regional and state level leaders who will work with you at www.arrl.org/sections.

National: Visit ARRL's website at www.arrl.org/ETP to find out what other schools are doing with Amateur Radio and wireless technology that can enrich your curriculum. Contact us by email at etp@arrl.org or by phone at (860) 594-0200.

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