

Unit 5

Amateur Radio Operations

Lesson #5.2

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Lesson Title Emergency Operations

Curriculum Areas Oral Communications
Technology
Social Studies

Duration 2 to 3 class periods

Content Standards OC-3, T-1, T- 4, T-5, SS-1

Benchmarks OC-3.1, T-1.1, T- 4.1, T-5.1, T-5.2

Goals

- Develop the student understanding of the applications of wireless communications for public service
- Develop student understanding of different emergency agencies and their roles
- Develop the recreational and educational use of wireless communications

Objectives

- Students list examples of use of wireless communications in emergency situations
- Students identify public service opportunities for wireless communications in the local community
- Students identify the role played by ARES and RACES in emergency communications

Resource Materials

ARRL Operating Manual, Chapters 7,8 &10
Now You're Talking

Instructional Content

Emergency Operation
 Emergency and disaster communications
 Distress calling
Tactical Communications
Health-and-Welfare Traffic
ARES
RACES
Contacting the International Space Station

Suggested Activities

1. Using FRS radios, have students act as “relay stations” between two other students in different rooms (or otherwise acoustically separated).
2. Play back recorded communication sound bites of various types of communications and see which student can correctly identify the type of communication first.
3. Satellite Delay Relay at: <http://sln.fi.edu/tfi/activity/space/sp-6.html>
4. Show the video *Last Voice from Kuwait*.
5. Write a brief example of a net check-in, including proper language and procedures.
6. Write a dialog of one ham station contacting another, giving proper procedures and information.
7. Use FRS radio to simulate a small emergency communication scenario (There must be frequent announcements “on air” explaining this is an “EMERGENCY SIMULATION” to avoid any misunderstanding). Example: Student is injured on the playfield and communications with the office are needed. Students make up call signs from school letters a number and student initials.
8. Students write questions they would like to ask the astronauts on the ISS.
9. Show ARRL video, *The New World of Amateur Radio*.