

Learn basic radioactivity concepts including **nuclear emissions (alpha, beta, & gamma), half-life, decay series, and ionizing radiation sources in our environment** to develop an understanding of where radon comes from and how it can affect us.

“Taking the 3R’s class, sponsored by Colorado School of Mines was one of the best decisions I have ever made as a middle school science teacher. For over five years, my 6th, 7th and 8th grade students have used the radiation kits from the 3R’s class to do fascinating and SAFE experiments with Geiger counters. ... I would highly recommend all science teachers take the 3R’s course!”
Michele King -- “2011 Science Teacher of the Year”
Science Program Coordinator, Pinnacle Charter School, Federal Heights, CO

Complete 14 engaging activities (which include short informational readings and concluding questions) that can be easily adapted for your classroom whether Chemistry, Physics, Environmental Science, Earth Science, or Biology, grades 6-12.

One or more of the activities can be used to support the following

CDE Science Standards/Grade level Expectations:

High School – Physical Science/2, 3, 5, 6; Life Science/7, 8
Earth Systems Science/1, 2, 3, 5

Eighth Grade – Physical Science/2, 4

Seventh Grade – Physical Science/1; Life Science/2, 3
Earth Systems Science/2

Sixth Grade – Physical Science/1, 2, 3; Earth Systems Science/2, 3

Denver Earth Science Project:

Do You Know Your 3 R’s? Radiation, Radioactivity, & Radon

Presented through a generous grant from CDPHE

“I’m so excited to teach this unit again! What are the students’ most requested elements to study?? Radioactive elements!!!”
Margo Lopenske
West Jefferson Middle School
Conifer, CO

Take home:

the comprehensive curriculum notebook,
additional resources, and
a class set of materials for teaching Units 2 & 3
including a radon test kit.

Teachers who have taken the class can check out Resource Kits for teaching Unit 1 in their classrooms. Each Resource Kit contains a Geiger counter, cloud chamber, radioactive disk sources, and more so that students can discover the characteristics of radioactivity themselves.

Pueblo, Colorado: June 19-20, 2012

Golden, Colorado: June 26-28, 2012

(includes a Nuclear Reactor tour)

Please register by June 11, 2012

\$25 registration fee

(returned at end of class)

1 semester graduate-level relicensure credit from Colorado School of Mines - (by separate form and \$50 check submitted during class)

Any questions or registration information - contact Peg Roding

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