

# JUNIOR REACTORS

*Create a tiny world of atoms with your very own set of Atomic Coins! Learn to recognize chemical reactions and mix up a few reactive ingredients for some sensational results!*

## SUMMARY:

In this class, students are introduced to the concepts of *atoms* and *reactions*! A demonstration of the differences between physical and chemical reactions is followed by a hands-on series of experiments. The relative size of an atom is introduced in a cutting edge race as the children try to reduce a strip of paper down to its atomic size! The class wraps up with a creative *molecular* session. The children explore how atoms join together and how *molecules* react using their Take-Home Atomic Coins kit.

## EDUCATIONAL VALUE:

This class provides a basic lesson on the atomic make-up of matter. Students will perform experiments and analyze their results to differentiate between the chemical and physical changes that may occur in a reaction. The children can create model molecules and use them to follow the atomic rearrangements that occur in a chemical reaction.

## TAKE-HOME MESSAGE:

- 1 Combining atoms together creates molecules, and groups of different molecules form chemicals.
- 2 When different chemicals are mixed together, they create different results.
- 3 If you know what clues to look for, you can explain the results of an experiment either as a chemical or physical change.

## TAKE-HOME PRODUCT:

Atomic Coins

## NORTH CAROLINA ESSENTIAL STANDARDS:

- 5.P.2.3 Summarize properties of original materials, and the new material(s) formed, to demonstrate that a change has occurred.



What's Inside:



Atomic Coins