

# Penny Half-life Lab

## Summary

Students will use pennies to model the half-life of radioactive atoms

## Main Core Tie

Science - Chemistry

[Standard 2 Objective 2](#)

## Time Frame

1 class periods of 60 minutes each

## Group Size

Small Groups

## Materials

- [student sheet](#)  
(attached)
- 100 pennies per lab group
- bag or plastic box or storage container sturdy enough to shake them in

## Instructional Procedures

Pre-count the pennies into a bag per 4 students.

"Hook" the students with a piece wood or fabric. Tell them it was found with a mummy in a pyramid and the archeologists want to find out how old it is.

Read the introduction and describe where the materials are located.

Allow students time to work and ask them to post the age they found for the clothing on the board.

Discuss why student results might be different from one another.

Allow time for analysis questions and graphing.

## Bibliography

Lesson Design by Jordan School District Teachers and Staff.

## Authors

[Utah LessonPlans](#)