

# Picture Guide for Radioactivity

## Summary

This is a study guide where the students draw pictures and write descriptions to review their chapter on radioactivity.

## Time Frame

1 class periods of 60 minutes each

## Group Size

Individual

## Materials

- [picture guide](#)  
(attached)
  - [student sheet](#)  
(attached)
- crayons, markers or colored pencils

## Background for Teachers

### Description:

Quantum Learning states that "there is no understanding without pictures." This is a study guide where the students draw pictures and write descriptions to review their chapter on radioactivity.

### Time Needed:

Teachers may choose to give students as much time as they would like to take in class and make the rest of the picture guide homework.

### Prior Knowledge:

This guide should be given at the end of the chapter on half-lives and radioactivity. Problems can be deleted or inserted depending on what was covered during the chapter. The packet corresponds to the Utah State Core Standards.

## Instructional Procedures

Pass out the Picture Guide attached for the radiation unit. Students must color in their pictures (it's been shown that the brain will differentiate better when different colors are used) so it might be helpful to put colored pencils and markers for the kids to use. If funny stories or pictures were used to teach some of the topics, they can be used in the student drawings.

Show an example from a student from a past year (if this is the first time using this lesson, you can use the student example in this lesson) so students know what is expected of them.

Explain ahead of time to the students how this assignment will be graded. This should be due the day before the exam so any misconceptions can be cleared up during the review of this picture guide.

## Assessment Plan

### Scoring Guide:

Give the students 2 points per picture and for each explanation (each problem should have at least one picture and one explanation). This picture guide is worth about 60 points. Each can be graded in seconds so it's nice to have the teacher grade these at the beginning of class while the students work

on something else for a minute. This way, the students can fix their own work and keep the guide to study for the exam. The students mostly just get participation points for completing the assignment.

### Bibliography

Lesson Design by Jordan School District Teachers and Staff.

### Authors

[Utah LessonPlans](#)