

STUDENT INVESTIGATION

Activity:

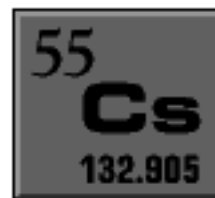
Explaining the uses of Cesium.

Purpose:

To explain the uses of Cesium based on its properties.

Definition:

The First Ionization Potential is the energy needed to remove the outermost electron from an atom of that element.



Materials:

DTE CD-ROM, computer with CD-ROM drive.

Procedure:

1. Using Discover the Elements find and list the uses of Cesium in the space provided below.

2. Find the First Ionization Potential for the elements Cs, Rb, Sr, Ba and S and record these values in the table below. (hint: try looking for this information in each element's Advanced Info section)

Data:

Element	Cs	Rb	Sr	Ba	S
First Ionization Potential					

Data Analysis and Conclusion:

1. Explain Cesium's first two uses based on its properties.
2. Why is it not practical to use Francium (Fr) instead of Cesium (Cs)?
(hint: check Francium's uses)