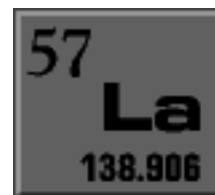


**Activity:** Exploring the Lanthanide Grouping



**Purpose:**

To explain why the lanthanides are considered a "Group" (or class) of elements even though they are arranged horizontally in the Periodic Table.

**Materials:**

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

**Procedure:**

1. Find Lanthanum on the Periodic Table. Click on Lanthanum and then click on the Group Info button.
2. In the chart below record the information found in the Overview section for the Lanthanide Group.
3. Also find and record the Overview information for two of the Lanthanide elements: Erbium (Er) and Neodymium (Nd)

**Data:**

<b>Lanthanide Info</b>	<b>Overview Info</b>
Group Info	
Neodymium Nd	
Erbium Er	

**Data Analysis and Conclusion:**

1. Can you use the data gathered to support labeling the elements in the Lanthanides a Group or class, even though they are arranged horizontally?
2. What would be a practical disadvantage of organizing these elements vertically?