



Virginia Region II Annual Teacher Night at Jefferson Lab 2025

Activity Title: **Mendeleev's Castle**

Type: Student Activity

Grade Level: Grade 8

Time Allotment: 30 minutes (part of one class period)

Objectives with Correlated SOLs:

PS.3 The student will investigate and understand that matter has properties and is conserved in chemical and physical processes. Key ideas include:

c) compounds form through ionic and covalent bonding

Essential Knowledge and Practices:

- compare ionic and covalent bonding
- apply scientific principles to predict if an ionic or covalent bond will form when main group metals and non-metals are chemically combined

Materials List (including equipment):

- A copy of the periodic table
- Mendeleev's sort cards
- Answer sheet fill in your answers from the room sort.

Teacher Contact Information:

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