



## Virginia Region II Annual Teacher Night at Jefferson Lab 2025

**Activity Title:** **Mixture Separation Challenge**

**Type:** Demonstration (Demo)

**Grade Level:** Grade 8

**Time Allotment:** 45 minutes

### 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  
a) pure substances can be identified based on their chemical and physical properties;  
b) pure substances can undergo physical and chemical changes that may result in a change of properties.

### Materials List (including equipment):

- Iron filings, Educational Innovations, 1 pound container, #M-600, \$5.95
- Salt
- Pebbles
- Sequins
- Colored Sand
- Magnets (ceramic), Amazon, \$12.95/120 magnets
- Metal strainer/sifter, Dollar Tree
- Tweezers, Amazon
- Coffee Filters
- Cups

### Teacher Contact Information:

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