

“I Can” Statements

1. Explain why scientific models are needed in many areas of science
2. Analyze a “black box” model and produce a sketch of its interior
3. Apply a scientific model to a concept in atomic theory
4. Safely conduct a flame test of various metal salts dissolved in water
5. Recognize the flame color of sodium, potassium, strontium, lithium, calcium and copper.
6. Compare the emission spectra of various elements in the laboratory
7. Distinguish different elements from each other using their emission spectra
8. Distinguish between the emission spectra of fluorescent room lights and that of incandescent (filament) light bulbs.
9. Match the spectra of known elements to those observed in the laboratory