

Guiding Questions Worksheet
Physical Science in Action: Atoms and Molecules Video

1. What is the smallest particle of an element called?
2. What are the three types of sub-atomic particles, and where are they located in an atom?
3. What force keeps electrons orbiting around the nucleus of an atom?
4. What electrical charge does each of the three sub-atomic particles have?
5. What force holds the nucleus together?
6. What makes atoms of different elements unique?
7. Where are all of the different elements listed? In what order are they listed?
8. What does the “atomic number” tell about an atom of that element?
9. What does the “atomic mass” tell about an atom of that element?
10. How do atoms join together to form molecules?
11. What are the two main kinds of chemical bonds?
12. What are the three phases of matter? What are the properties of each phase?