1. What is matter? Choose the best answer.
   A. Anything that is solid
   B. Anything that takes up space
   C. Anything that has a fixed volume
   D. Anything that can be seen

2. In what way are liquids different from solids?
   A. Liquid molecules are lighter than solid molecules
   B. Liquids are made of atoms; solids are made of molecules
   C. Liquids don't have a fixed shape; solids do
   D. Liquids are always denser than solids

3. What happens to the chemical structure of water when it changes state?
   A. Water molecules break apart to form individual atoms
   B. Water molecules harden into ice molecules
   C. Water molecules melt into gas molecules
   D. Nothing happens to the chemical structure

4. What will happen if you keep increasing both the pressure and temperature of a liquid?
   A. It will boil
   B. It will transpire
   C. It will melt
   D. It will solidify

5. What do lightning and stars have in common?
   A. Both have no electrical charge
   B. Both contain plasma
   C. Both have a fixed volume
   D. Both contain all three states of matter

6. Water's chemical formula is "H2O." What does this mean?
   A. Water is composed of hydrogen molecules and oxygen molecules
   B. A gram of water contains 20 hydrogen atoms
   C. Each water molecule contains two hydrogen atoms and one oxygen atom
   D. Water molecules cannot be split into smaller pieces

7. What is the basic shape of a liquid?
   A. A sphere
   B. The same shape as a gas, only rounder
   C. A cube
   D. Whatever the shape of its container is

8. How can you remove energy from matter?
   A. By increasing its volume
   B. By lowering its temperature
   C. By increasing its pressure
   D. By boiling it

9. Gases have a tendency to expand. What's the best synonym for "expand?"
   A. Collide
   B. Spread out
   C. Shrink
   D. Boil

10. Where would you find a Bose-Einstein condensate?
    A. Inside stars
    B. At the North Pole
    C. In a science lab
    D. Bose-Einstein condensates exist only in theory