

Clouds & Particles

Basics

1. Clouds

Solution Worksheet 4

1.

Hot steam (water vapor) rises from the spout of the kettle. The air outside the can has a room temperature below the temperature of the gas from the spout.

A moment after the vapor has left the spout it has had time to cool, and droplets start to form. The gap appears because the water vapor needs time to cool before condensation starts, and during this time, it rises some distance above the spout.

2.

The answer can take various forms; for instance:

Drinks and most foods contain water. This water mostly comes from streams (which in turn came from lakes that were filled by rain or melting snow). We give off water in the form of vapor when we breathe and sweat, and in liquid form when we urinate. This water enters the air (or the ocean through the sewage system) and continues through the water cycle.