Physical & Chemical changes in spring

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PLANTING AND GROWTH OF PLANT

Location

- My garden in Dúbravka
- State
 - Solid
- Change
 - □ Chemical

Process

Growing

Description of the process

Growth of a plant is a chemical change because it involves photosynthesis reaction. During the process of photosynthesis plants take sunlight from the sun and converts it to chemical energy such as sugar. This energy is helpful in their growth.



HONEY

Location

□ My garden in Dúbravka & my jar of homemade honey

G State

□ Honey - liquid, crystals - solid

Change

- Physical
- Process
 - □ Crystallization

Description of the process

Pollination of flowers is typical for spring. Honey is a product of the honey bee. Composition of bee honey is 70% glucose and fructose, 20% water, 5% sucrose, 5% other substances. Crystallization of honey is a natural property of honey as honey is a supersaturated solution of sugars. The rate of crystallization depends on the amount of glucose and fructose in the honey.



ASH

Location

□ My garden in Dúbravka

□ State

□ Ash is solid remnants of fire

□ Change

Chemical

Process

Burning

Description of the process

During spring in many gardens people burn leaves & wood sticks (even it is prohibited) to clean their gardens. When wood & leaves burn, they change chemically to carbon dioxide & leaves a residue of ashes.



RUST

Location

□ My garden in Dúbravka

G State

Solid

- Change
 - Chemical

Process

Rusting

Description of the process

When air & water act on an iron object a new substance – rust is formed. Rust is a different substance than iron; therefore, chemical change result in the new substance.



VAPOR

□ Location

□ Home boiled water/ Nature

□ State

Gaseous

Change

Physical

D Process

□ Vaporization – Boiling and Evaporation

Description of the process

Vaporization is a phase transition from the liquid phase to vapor. There are 2 types of vaporization:

Boiling water – molecules are forced away from each other when the liquid changes to vapor (gas), but the molecules are still water.

Evaporation – Spring is typical for rains and water is very important for living organisms. After rainy days, the evaporation process is happening in the nature. When water evaporates, it changes from the liquid state to the gas state, but it is still water; it has not changed into any other substance. It is a part of a water cycle process.