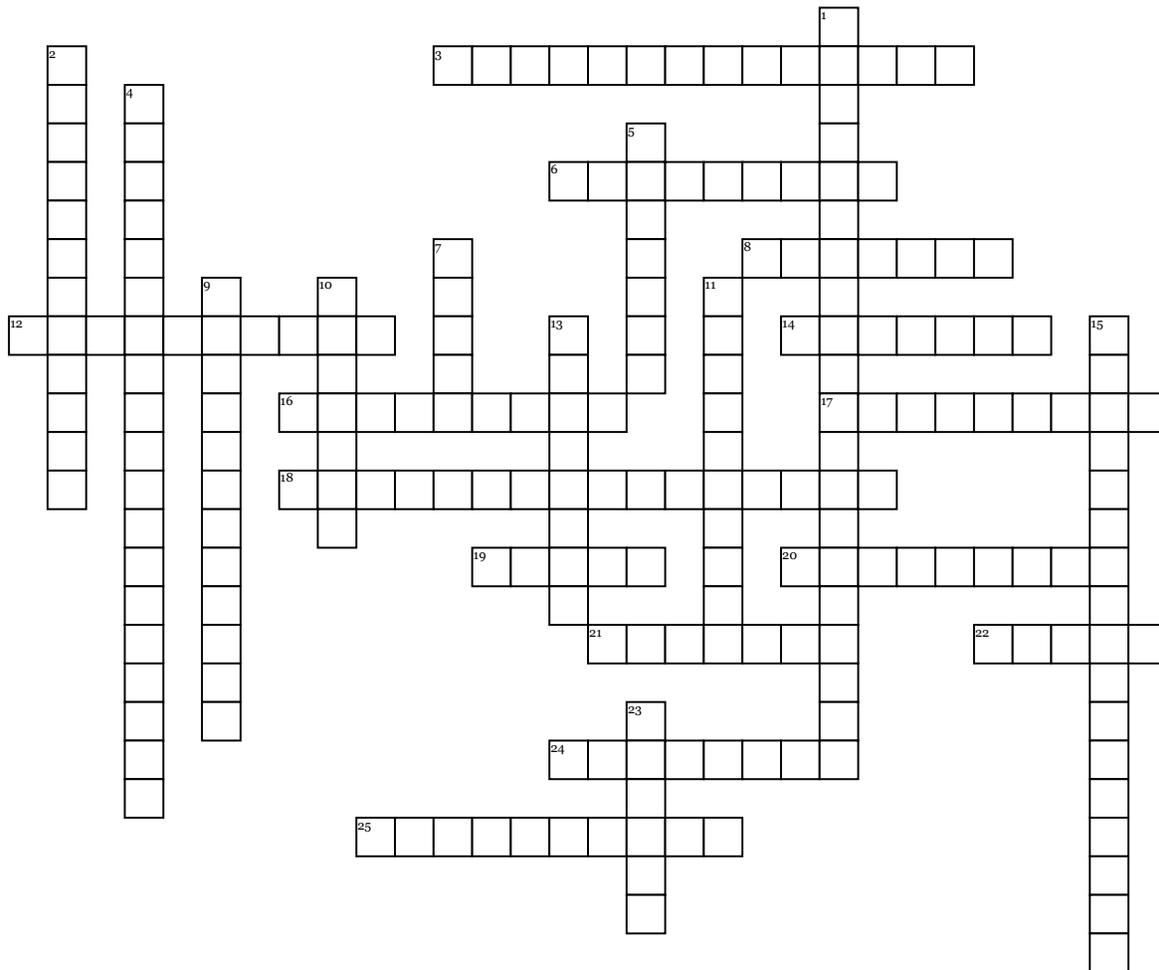


# Chapter 4 Homework



## Across

**3.** The first species to populate an area during succession

**6.** An interaction in which one animal captures and feeds on another animal

**8.** The average year-to-year conditions of temperature and precipitation in an area over a long period of time

**12.** The symbiotic relationship in which one organism lives on or inside another organism and harms it

**14.** An area where an organism lives, including the biotic and abiotic factors that affect it

**16.** The symbiotic relationship in which both species benefit from the relationship

**17.** A relationship in which two species live closely together

**18.** The process in which certain gases (carbon dioxide, methane, and water vapor) trap sunlight energy in Earth's atmosphere as heat

**19.** The full range of physical and biological conditions in which an organism lives and the way in which the organism uses those conditions

**20.** An interaction in which one animal feeds on producers

**21.** Organisms that live attached to or near the bottom of lakes, streams, or oceans

**22.** A material formed from decaying leaves and other organic matter

**24.** Typically small organisms that drift in, and may swim through, aquatic environments; includes both phytoplankton and zooplankton

**25.** The layer in a rain forest found underneath the canopy formed by shorter trees and vines

## Down

**1.** A series of gradual changes that occur in a community following a disturbance

**2.** The symbiotic relationship in which one organism benefits and the other is neither helped nor harmed

**4.** A type of succession that occurs in an area that was only partially destroyed by disturbances

**5.** An ecosystem in which water either covers the soil or is present at or near the surface for at least part of the year

**7.** A biome with long cold winters and a few months of warm weather; dominated by coniferous evergreens; also called boreal forest

**9.** Environmental conditions within a small area that differ significantly from the climate of the surrounding area

**10.** A kind of wetland formed where a river meets the ocean

**11.** A layer of permanently frozen subsoil found in the tundra

**13.** Any necessity of life, such as water, nutrients, light, food, or space

**15.** The succession that occurs in an area in which no trace of a previous community is present

**23.** A dense covering formed by the leafy tops of tall rain forest trees