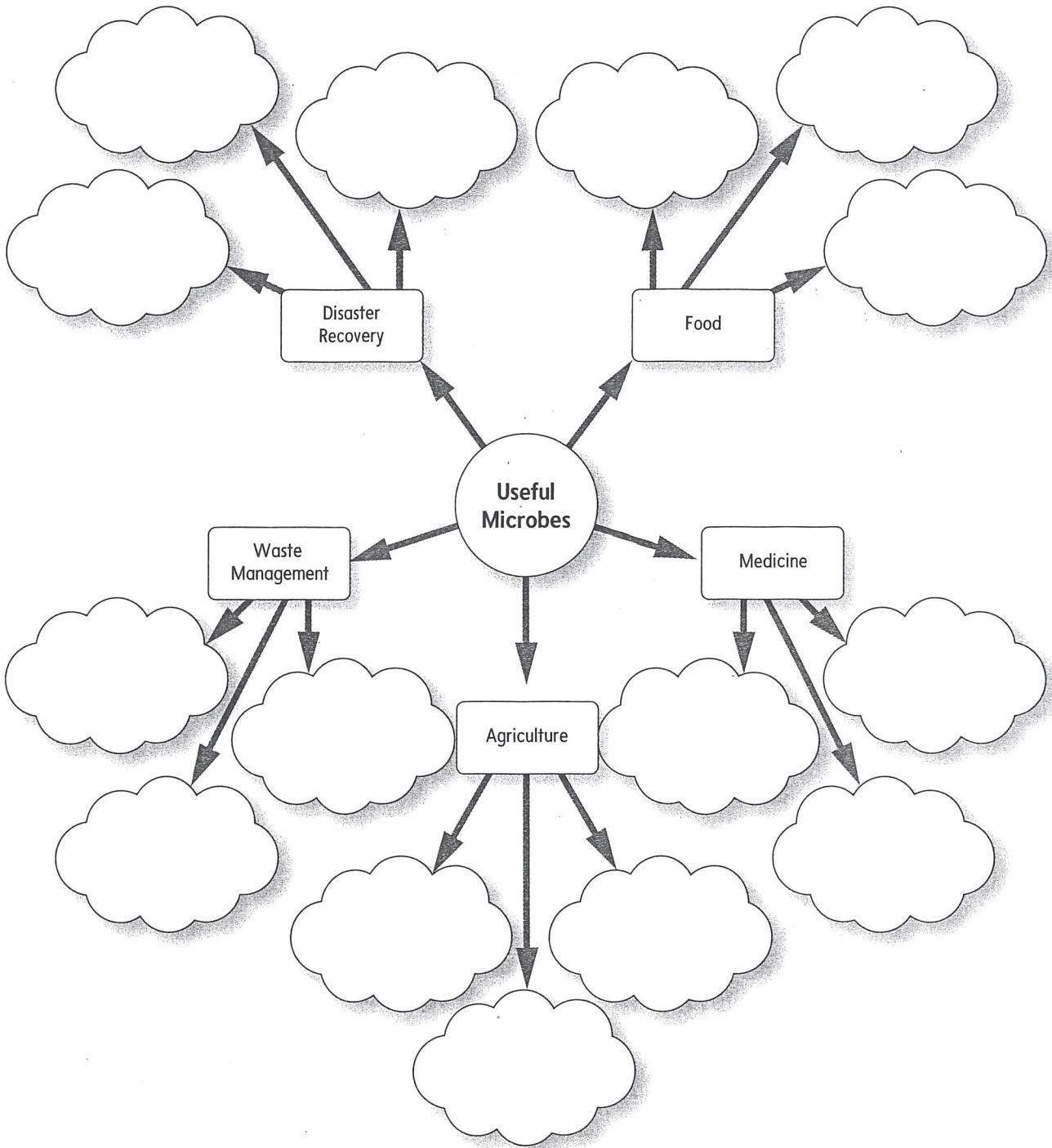


Useful Microbes

Use with textbook pages 42-43.

1. Complete the following concept map to illustrate the positive contributions that useful microbes make to the lives of humans.



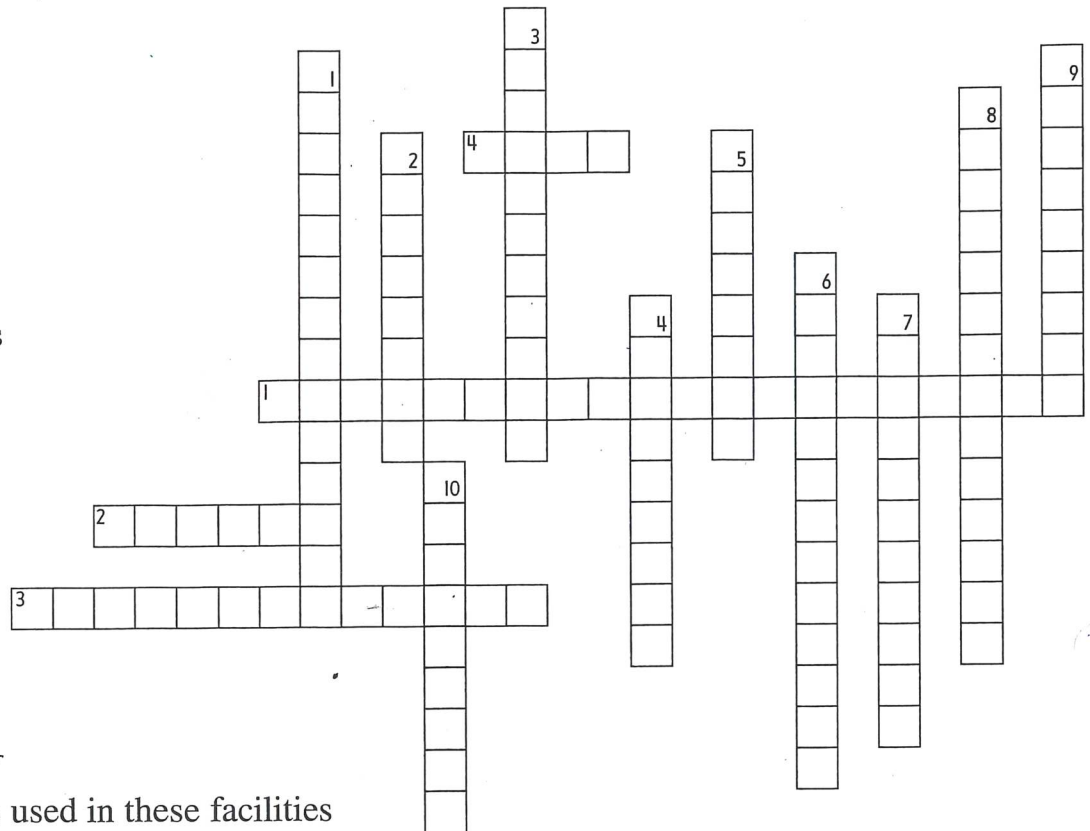
Roles of Microbes

Use with textbook pages 40-43.

Complete the following crossword puzzle by using the clues and vocabulary list provided.

Vocabulary

chloroplast
decomposers
food
food poisoning
medicines
microbes
micro-organisms
nitrogen
nutrients
pathogens
photosynthesis
phytoplankton
toxins
water treatment
plants



Across

- bacteria are used in these facilities to assist in decomposing wastes
- poisons
- condition caused by *E. Coli*, *Listeria*, and *Botulism*
- bacteria that make things like cheese, chocolate, and yogurt

Down

- organisms that need a microscope to be seen
- short form for micro-organism
- bacteria that break down dead organisms to return nutrients to the soil
- substance made available due to bacteria decomposing waste materials
- nutrient made available to plants by bacteria in root nodules of peas and beans
- microbes that live in oceans and lakes that produce 50% of the oxygen in the atmosphere
- organelle found in producers that carry out photosynthesis
- cellular process carried out by producers to make oxygen
- organisms that cause diseases
- examples include antibiotics and insulin made by bacteria