

Chapter 2 – Cells

I use dictation and copy work extensively in history and science. Copy work and dictation help your child develop spelling and writing skills, as well as composition skills. They also help your child memorize facts. If your child is ready to compose his own paragraph, let him do that. Otherwise, have your child copy the paragraphs provided below in the corresponding worksheets.

In each case, have your child copy and label an image of the cell. For prokaryotic cells, I let my son use the image on page 15 of the book. For the animal and plant models, I downloaded a free printable that I found more attractive. You can download it here:

http://www.teachervision.fen.com/tv/printables/concepts/LStransparencies_3.pdf

Vocabulary

The vocabulary words for this chapter are underlined. Help your child look up the words in a Children's dictionary or the glossary at the end of the book. Have your child write the definitions in the vocabulary worksheet and place it in his notebook. We usually complete this worksheet over the course of several days as we encounter new words in our text.

Copy Work

Prokaryotic Cells

There are two major types of cells. The simplest cells are called prokaryotic cells. They do not have a nucleus. The DNA is kept in the nucleoid and is not separated from the rest of the cell by a membrane. All bacteria are prokaryotic. All other living things are eukaryotic.

Plant Cells

Plant cells are eukaryotic cells because they have a nucleus that holds the DNA and other machinery required to copy and use the DNA. Plant cells have cell walls. They have chloroplasts to convert the sun's energy into food.

Animal Cells

Animal and plant cells have many of the same organelles. Both have a nucleus and mitochondria. Animal cells do not have chloroplasts or cell walls. They are covered in the plasma membrane instead.

Draw an animal cell. Label all the structures. Then, write a paragraph about it.



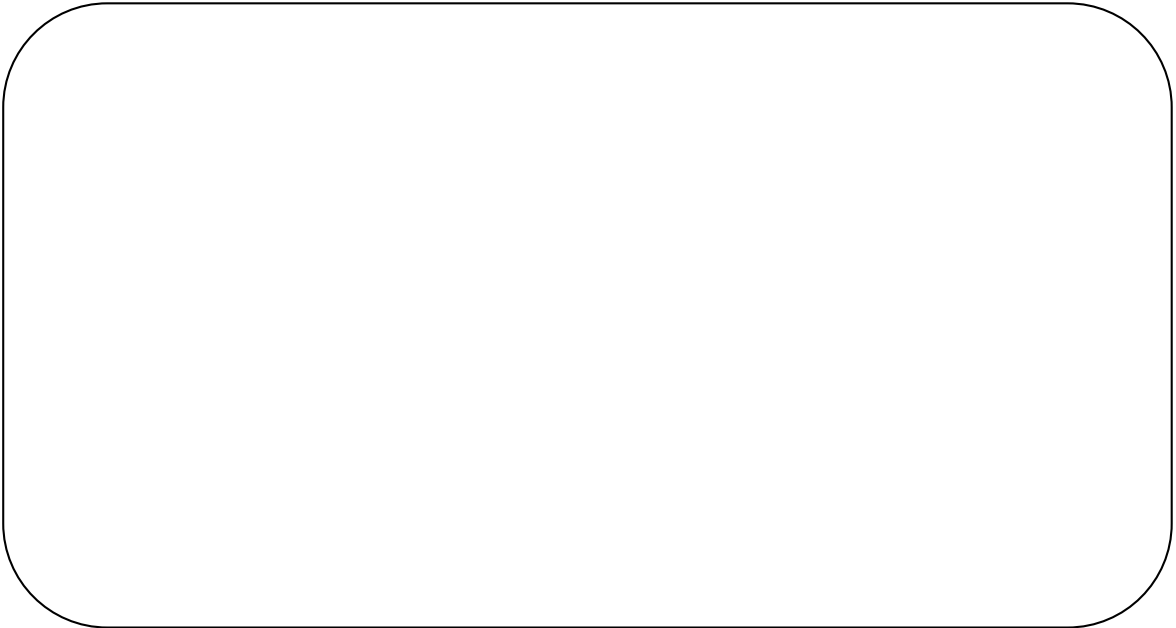
Animal Cells

Draw a plant cell. Label all the structures. Then, write a paragraph about it.



Plant Cells

Draw a prokaryotic cell. Label all the structures. Then, write a paragraph about it.



Prokaryotic Cells

Look up the vocabulary words in a dictionary or in the glossary at the back of your textbook. Write the definition next to each word.

Chapter 2 Vocabulary

cell

tissue

DNA

chloroplast

organelle

nucleus

chloroplasts

prokaryotic cell
