

Section 8-2: Cell Structure

Cell Organization

Eukaryotic cells are a complex and busy place, but if you look closely, there are patterns that emerge. Each cell can be divided into two major parts: the nucleus and the cytoplasm.

- The **cytoplasm** is the portion of the cell outside the nucleus. It is made up of water and dissolved chemicals. Prokaryotic cells (that do not have a nucleus) also contain cytoplasm.
- Within the cytoplasm are several structures that act as if they are specialized organs. They are called **organelles**, which means "little organs".



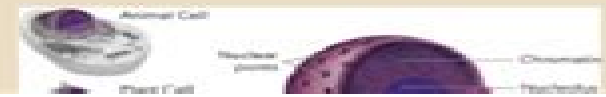
The Nucleus

In the same way that the main office controls a large factory, the **nucleus is the control center of the cell**. The nucleus contains nearly all the cell's DNA and, with it, the coded instructions for making proteins and other important molecules.

The nucleus is surrounded by a nuclear envelope.

- The nuclear envelope is dotted with thousands of nuclear pores, which allow material to move into and out of the nucleus.
- A steady stream of proteins, RNA, and other molecules move through the nuclear pores to and from the rest of the cell. This is just like messages, instructions and blueprints moving into and out of a main office.

Chromosomes, which carry the cell's genetic information are found in the nucleus. Most of the time, chromosomes are spread out throughout the



Section 8 2 Power Notes

Xiaolong Qi



Section 8 2 Power Notes:

Section 8 2 Power Notes Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Section 8 2 Power Notes**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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by Lois Lowry. If you want detailed daily lesson plans and everything else you need to teach The ... The Giver ... chapters of The Giver and is comprised of five of the following different activities: Before You Read; Vocabulary Building; Comprehension Questions; Language ... The Giver Teaching Ideas Nov 21, 2016 — Check out these The Giver teaching ideas to make your novel study fun and exciting. Your middle schoolers will thank you. Introductory Activities - The Giver by Lois Lowry - Weebly An anticipation guide is a comprehension strategy that is used before reading to activate students' prior knowledge and build curiosity about a new topic.