

Donelson Middle School

7th Grade Connection

April 6-10, 2020



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"You don't have to be perfect to be amazing"

A Look at Our Learning:

The activities listed here are *optional*, but are meant to support your child to maintain his/her skills until we return. Work will not be graded, and will not affect student promotion or attendance.

Suggested grade level activities:

Check out the MNPS printable learning packet for this week here: <https://www.mnps.org/printables>.

Review or extension activities:

Math: Proportional Relationships, Operations with Integers (add, subtract, multiply & divide), and One- and Two-Step Equations with word problems. Students should continue to complete lessons in iReady.

ELA: Students should continue to progress in iReady and access the learning packet mentioned in the link above. Don't forget to read for 20 minutes a day! 😊

Science: Prokaryotic and Eukaryotic Cells (See attached PDF files)

Social Studies: Students please login to Schoology through Clever using your school credentials to access Do Nows, Discussions and Assignments. This week we are focusing on the Scientific Revolution.

Related Arts

PE: <https://www.romper.com/p/10-online-exercise-yoga-kid-classes-to-make-up-for-pe-22627985> For those that don't have access to the internet, going for daily 30-45 minute walks can help alleviate stress and anxiety.

Guitar: <https://www.youtube.com/user/littlekidsrock/videos>

Band:

<https://www.nashvillesymphony.org/education/resources/additional-resources/> Did you know Nashville has their very own Symphony Orchestra? We are Music City! All sorts of music fills the streets of Nashville. Take time this week to explore the link for the NSO. If you'd like to email and ask questions...please do. laura.shepherd@mnps.org

Art: <https://theartofeducation.edu/2015/11/10/100-sketchbook-prompts-your-students-will-love/> Students should try this link to decide what to draw each day. These drawings will sharpen their artistic skills and promote creative skills to be used in all aspects of their lives. Feel free to customize any idea. Any prompt may also generate more original ideas! Besides using a pencil, you can use anything else you have around for color or to add for embellishment.

Music: During this time of stress in our world, I want to encourage you to take advantage of all the musical offerings that musicians are providing, free of charge. Facebook, Instagram, Twitter are all full of concert announcements! All sorts of styles and sounds to be heard. Take the time you have now to venture out and see if you can find a new favorite artist!

Spanish: Download the Duolingo app at [duolingo.com](https://www.duolingo.com). Listen to Spanish music on Spotify (Latin Hit Mix, Latin Pop Classics). [Rockalingua.com](https://www.rockalingua.com) (activities for learning Spanish). Free trial for two weeks on [Babbel.com](https://www.babbel.com) to learn Spanish!

Social Emotional Learning/Self-care



Future Smart: This course is used to empower middle school students to effectively learn about and use time management skills to set goals, prepare for careers, and manage their financial future through interactive, real-life scenarios.

Through your Clever portal access EVERFI OR go to <http://everfi.com> and use your MNPS login using registration code 9991d2a5. Choose the course named Future Smart



Opportunities to Connect

Stay on the lookout for emails from our school and teachers!!

Mr. Wiseman and Ms. Barr will be hosting a Zoom video chat for our homeroom students on Thursday @ 1pm. <https://zoom.us/j/2483281394?pwd=ZzBDU0Q0cDBXckJ1OHM0YVRtbUQwdz09> Meeting ID: 248 328 1394 Password: 483670. We hope to see everyone then!

Keep up to date with the district website (www.mnps.org/covid19), our website (donelsonmiddle.weebly.com), our Facebook page (Donelson Middle School), our Twitter feed (@DonelsonMNPS), and our NEW Instagram page (Donelsonmiddleschoolnashville).

Lesson 3.1: Critical Reading

Name _____ Class _____ Date _____

Read these passages from the text and answer the questions that follow.

Two Types of Cells

There is another basic cell structure that is present in many but not all living cells: the nucleus. The **nucleus** of a cell is a structure in the cytoplasm that is surrounded by a membrane (the nuclear membrane) and contains DNA. Based on whether they have a nucleus, there are two basic types of cells: prokaryotic cells and eukaryotic cells.

Prokaryotic Cells

Prokaryotic cells are cells without a nucleus. The DNA in prokaryotic cells is in the cytoplasm rather than enclosed within a nuclear membrane. Prokaryotic cells are found in single-celled organisms, such as bacteria. Organisms with prokaryotic cells are called **prokaryotes**. They were the first type of organisms to evolve and are still the most common organisms today.

Eukaryotic Cells

Eukaryotic cells are cells that contain a nucleus. Eukaryotic cells are usually larger than prokaryotic cells, and they are found mainly in multicellular organisms. Organisms with eukaryotic cells are called eukaryotes, and they range from fungi to people. Eukaryotic cells also contain other organelles besides the nucleus. An **organelle** is a structure within the cytoplasm that performs a specific job in the cell. Organelles called mitochondria, for example, provide energy to the cell, and organelles called vacuoles store substances in the cell. Organelles allow eukaryotic cells to carry out more functions than prokaryotic cells can.

Viruses: Prokaryotes or Eukaryotes?

Viruses are tiny particles that may cause disease. Human diseases caused by viruses include the common cold and flu. Do you think viruses are prokaryotes or eukaryotes? The answer may surprise you. Viruses are not cells at all, so they are neither prokaryotes nor eukaryotes.

Viruses contain DNA but not much else. They lack the other parts shared by all cells, including a plasma membrane, cytoplasm, and ribosomes. Therefore, viruses are not cells, but are they alive? All living things not only have cells; they are also capable of reproduction. Viruses cannot reproduce by themselves. Instead, they infect living hosts, and use the hosts' cells to make copies of their own DNA. For these reasons, most scientists do not consider viruses to be living things.

Questions

1. What is one main difference between prokaryotic and eukaryotic cells?
2. Give an example of a prokaryotic organism.
3. What is an organelle? Give three examples. (*Hint: See the Eukaryotic Cell figure in the FlexBook.*)

4. Describe the nucleus. What can be found inside the nucleus?

5. Are viruses alive? Discuss why or why not.