

Donelson Middle School

7th Grade Connection

April 13-17, 2020



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"No one is perfect—that's why pencils have erasers"

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: Diffusion and Osmosis (See attached PDF file)

Social Studies: Our upcoming unit is essential to preparing for 8th grade Social Studies so please have your student login to my Schoology page and join in the discussions. We will be learning about European explorers and how they changed the Americas. <https://mnps.schoology.com/>

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

WHO misses you?



Opportunities to Connect

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

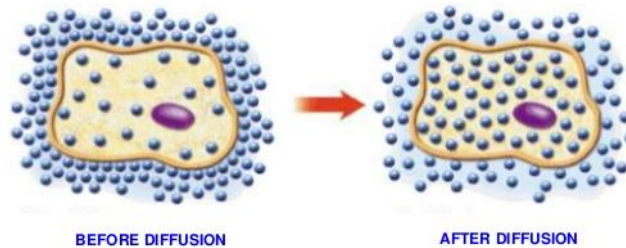
Mr. Wiseman and Ms. Barr will be hosting a Zoom video chat for our homeroom students on Thursday @ 1pm. <https://zoom.us/j/2483281394?pwd=ZzBDU0Q0cDBXckJ1OHM0YVRtbUQwdz09> Meeting ID: 248 328 1394 Password: 483670. We hope to see everyone then!

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

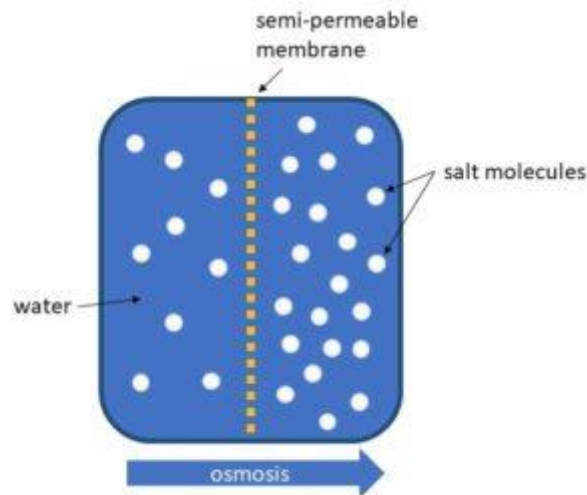
Diffusion and Osmosis

Diffusion is the random movement of tiny particles across the cell membrane from areas of **high** concentration to areas of **low** concentration.

Diffusion Across Cell Membranes



Osmosis is movement of water across the cell membrane from areas where there is **more water** (less solute) to areas where there is **less water** (more solute).

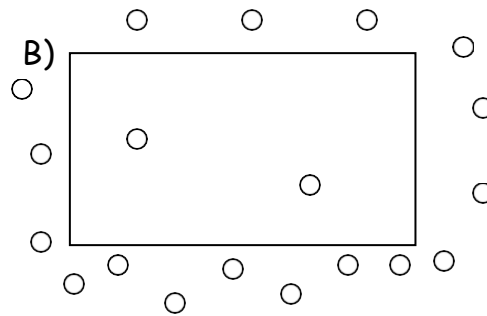
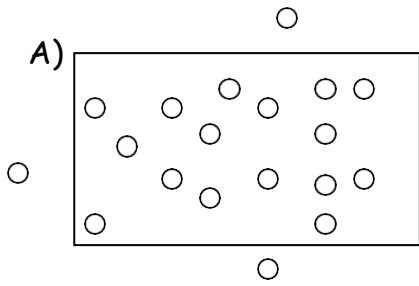


How are the molecules moving in the examples below (1-9)? Write **OSMOSIS** or **DIFFUSION**.

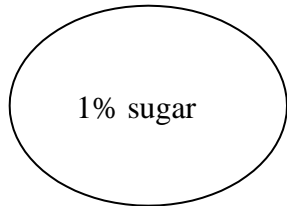
1. The student sitting next to you just came from gym class and forgot to shower and you can tell. _____
2. After sitting in the bathtub for hours, your fingers start to look like prunes. _____
3. The girl sitting two rows ahead of you put on too much perfume this morning. _____
4. One way to get rid of slugs in your garden is to sprinkle salt on them, so they shrivel up. _____
5. Yum! Something smells good. The neighbors are cooking on the grill! _____
6. Gargling with salt water when you have a sore throat causes your swollen throat cells to shrink and feel better. _____
7. Oxygen molecules move from the air sacs in the lungs across the cell membranes into the blood _____
8. Robert sprays water on the veggies in the produce section to "plump them up". _____

9. You put raisins in a glass of water and they plump up. _____

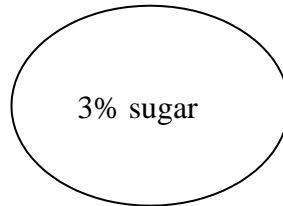
10. Use arrows to indicate the direction of diffusion in each case: ○ is a molecule that can pass through the cell membrane. □ is a cell membrane.



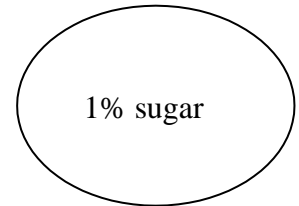
11. For each of the situations below use an arrow to indicate the net movement **of sugar** into or out of the cell. (Assume that the sugar molecules can pass through the cell membrane in each case.)



5% sugar



1% sugar



1% sugar

12. In the figure of the U-tube below, side "A" is pure water and side "B" is a 10% starch solution. **The starch can not pass through the membrane because it is too large, only the water moves across the membrane.** Explain what has happened in the before and after picture below.
Why does this happen?

