WJCC School Closure Learning Plan - 7th GRADE LIFE SCIENCE

Dear WJCC Families,

We are facing significant challenges throughout our nation due to the COVID-19 pandemic. As a result, WJCC Schools will be closed for the remainder of the academic year per the direction of Governor Northam. The Virginia Department of Education will provide guidance on continued teaching and learning over the next few days.

Throughout this time, we will continue to provide resources and activities to support learning. The resources in this packet will help your child practice important skills and review content. This supplemental packet should support learning activities from March 30th – April 3rd. Additional resources may be posted on Student VUE for certain subjects. Students are encouraged to check Student VUE during this time.

This work is not required, and it will not be graded. We simply want families to have access to materials and options during our mandated school closure.

We will be in touch soon with our direction for the remainder of the school year. We hope everyone remains safe and healthy.

Sincerely,
WJCC Staff

7th Grade Life Science Extended Learning Choice Board

Student Directions: Choose **one** of the activities below to complete each day. Place a check mark in each box you complete. If you wish to extend your learning, complete more activities.

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<tr>
<td>Write a paragraph explaining how heterotrophs depend on the sun for energy. Then share your explanation with a family member or friend.</td>
<td>Draw a picture showing what happens in a plant during photosynthesis. Make sure you show how the plant absorbs all of the materials it needs and what products it releases. Remember this equation: 6CO2 + 6H2O ------> C6H12O6 + 6O2</td>
<td>Create a rap or poem about Photosynthesis. It must contain all the parts of photosynthesis and clearly explain what is happening during the process.</td>
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<td>Imagine you built a time machine and traveled back to the 1850s. Your cell phone is ringing and someone asks if it is alive. Write down how you would explain to that person if your phone is alive or not. Then share your answers with a family member or friend.</td>
<td>Make flashcards or digital cards using the following vocabulary cards
1. Homeostasis
2. Spontaneous generation
3. Chloroplast
4. Cell
5. Mitochondria
6. Organelle
7. Endoplasmic reticulum
8. vacuole</td>
<td>Jayden conducted an experiment to test the effect of miracle grow fertilizer on daisy growth. His hypothesis was: If miracle grow is added to daisies then they will grow taller. He designed and ran a controlled experiment and came up with the following data:
<table>
<tr><td>Trial 1 (no fert.)</td><td>Trial 2 (fert.)</td><td rowspan="5">Was Jayden’s hypothesis correct? Write a conclusion for Jayden’s experiment.</td></tr>
<tr><td>2cm</td><td>2cm</td></tr>
<tr><td>3cm</td><td>4cm</td></tr>
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<td>Complete a Venn Diagram Comparing Animal and Plant Cells.</td>
<td>Create a poster on blank paper that shows a rule for safety in the science classroom. Take a picture of your poster to share with your teacher, family member, or friend.</td>
<td>Take a walk outside with an adult and gather 5 things from nature. Then create a dichotomous key to help others identify what you found.</td>
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<td>Find a relative or friend and ask them the following questions to see what they know. Then tell them your responses.
• What role does chlorophyll play in photosynthesis?
• Where is the chlorophyll found?
• What role does the mitochondrion play in cellular respiration?
• Where are the mitochondria found?</td>
<td>Design an experiment to test and see if plants grow in the dark. Make sure you explain clearly how to run the experiment to test your hypothesis. You do not have to actually do the experiment; just write what you would do. Include all parts of the scientific method, and be sure to identify your variables.</td>
<td>Convert the following measurements using the metric system. (Remember: KHDBDCM)
6cm= ___Km
18mg= ___g
36kg= ____g
4mL=____kL</td>
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