

CHEMICAL RESPIRATION UNIT ORGANIZER

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STANDARDS FOR ACHIEVEMENT AND PERFORMANCE:

1. Review plant and animal cell structure.
2. Understand the photosynthesis process.
3. Describe the respiration process.
4. Demonstrate human respiration.
5. Understand the flow of energy in an ecosystem.
6. Calculate the number of calories used in a day.
7. Learn to read nutritional facts on food labels.
8. Calculate how far to walk to burn a certain number of calories.
9. Understand the reason to eat a balanced diet.

ASSESSMENT:

1. Cell review worksheet.
2. Photosynthesis lab.
3. Respiration lab.
4. Epiglottis worksheet.
5. Calories burned worksheet.
6. Nutritional budget worksheet.
7. How far to walk lab.
8. Determine food calories lab.
9. Respiration and food test.

CORE KNOWLEDGE SEQUENCE:

1. Energy for most life on earth comes from the sun, to plants, to animals, back to plants.
2. Living cells get most of their energy through chemical reactions.
3. Energy in plants: photosynthesis.
4. Energy in animals: respiration.
5. Human nutrition and respiration.
6. Human health: vitamin sources and balanced diets.

COLORADO STATE STANDARDS:

1. Understand that chemical reactions are processes in which atoms are rearranged into different combinations of molecules.