

Lesson Outline for Teaching

Lesson 4: Cells and Energy

A. Cellular Respiration

1. All living things need energy to survive.
2. Cellular respiration is a series of chemical reactions that convert the energy in food molecules into a usable form of energy called ATP.
3. The first step of cellular respiration, called glycolysis, occurs in the cytoplasm of all cells.
4. During glycolysis glucose, a sugar, is broken into smaller molecules.
5. The second step of cellular respiration occurs in the mitochondria of eukaryotic cells. This step requires oxygen.
6. During the second step of cellular respiration, the smaller molecules made during glycolysis are broken down. Large amounts of usable energy, called ATP, are produced.
7. Water and carbon dioxide (CO₂) are two waste products that are given off during the second step of cellular respiration.

B. Fermentation

1. Eukaryotic and prokaryotic cells use fermentation to obtain energy from food when oxygen levels are low.
2. Fermentation occurs in a cell's cytoplasm.
3. Lactic-acid fermentation converts glucose into ATP and a waste product called lactic acid.
4. Some types of bacteria and yeasts make ATP during alcohol fermentation. This process produces ethanol and CO₂.

C. Photosynthesis

1. Plants and some unicellular organisms obtain energy from light.
2. Photosynthesis is a series of chemical reactions that convert light energy, water, and CO₂ into glucose and oxygen.
3. In plants, light energy is absorbed by pigments such as chlorophyll.
4. The chemical reactions of photosynthesis occur in chloroplasts, the organelles in plant cells that convert light energy into food.
5. Photosynthesis uses CO₂ that is released during cellular respiration to make food energy and release oxygen.
6. When an organism eats plant material, it takes in food energy. An organism's cells use oxygen released during photosynthesis.

Mcgraw Hill Science 6th Grade Outline Answers

CL Gary



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Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents **Writer's Choice Cooperative Learning Activities Grade 8** McGraw-Hill Staff, 2000-07

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