

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 (CO_2) 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 CO_2 .

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 CO_2 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 CO_2 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.

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Electrochemical Engineering Thomas F. Fuller,John N. Harb,2018-02-15 A Comprehensive Reference for Electrochemical Engineering Theory and Application From chemical and electronics manufacturing to hybrid vehicles energy storage and beyond electrochemical engineering touches many industries any many lives every day As energy conservation becomes of central importance so too does the science that helps us reduce consumption reduce waste and lessen our impact on the planet Electrochemical Engineering provides a reference for scientists and engineers working with electrochemical processes and a rigorous thorough text for graduate students and upper division undergraduates Merging theoretical concepts with widespread application this book is designed to provide critical knowledge in a real world context Beginning with the fundamental principles underpinning the field the discussion moves into industrial and manufacturing processes that blend central ideas to provide an advanced understanding while explaining observable results Fully worked illustrations simplify complex processes and end of chapter questions help

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Exergy Ibrahim Dincer, Marc A Rosen, 2020-12-02 Exergy Energy Environment and Sustainable Development Third Edition provides a systematic overview of new and developed systems new practical examples problems and case studies on several key topics ranging from the basics of thermodynamic concepts to advanced exergy analysis techniques in a wide range of applications With an ancillary online package and solutions manual this reference connects exergy with three essential areas in terms of energy environment and sustainable development As such it is a thorough reference for professionals who are solving problems related to design analysis modeling and assessment Connects exergy with three essential areas in terms of energy environment and sustainable development Provides a number of illustrative examples practical applications and case studies Written in an easy to follow style starting from the basics to advanced systems

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

Dynamic Modeling and Predictive Control in Solid Oxide Fuel Cells Biao Huang,Yutong Qi,A. K. M. Monjur Murshed,2013-02-18 The high temperature solid oxide fuel cell SOFC is identified as one of the leading fuel cell technology contenders to capture the energy market in years to come However in order to operate as an efficient energy generating system the SOFC requires an appropriate control system which in turn requires a detailed modelling of process dynamics Introducing state of the art dynamic modelling estimation and control of SOFC systems this book presents original modelling methods and brand new results as developed by the authors With comprehensive coverage and bringing together many aspects of SOFC technology it considers dynamic modelling through first principles and data based approaches and considers all aspects of control including modelling system identification state estimation conventional and advanced control Key features Discusses both planar and tubular SOFC and detailed and simplified dynamic modelling for SOFC Systematically describes single model and distributed models from cell level to system level Provides parameters for all models developed for easy reference and reproducing of the results All theories are illustrated through vivid fuel cell application examples such as state of the art unscented Kalman filter model predictive control and system identification techniques to SOFC systems The tutorial approach makes it perfect for learning the fundamentals of chemical engineering system identification state estimation and process control It is suitable for graduate students in chemical mechanical power and electrical engineering especially those in process control process systems engineering control systems or fuel cells It will also aid researchers who need a reminder of the basics as well as an overview of current techniques in the dynamic modelling and control of SOFC

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web yes cpctc is a theorem that says corresponding parts of congruent triangles are congruent

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web to defend to show to be correct two or more figures with the same side and angle measures cpctc if two figures are congruent then the corresponding of the congruent figures are congruent for triangles corresponding parts of congruent triangles are congruent use tick marks and arcs to indicate the remaining corresponding congruent parts e

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web once you have triangles congruent you can make conclusions about their other parts because by definition corresponding parts of congruent triangles are congruent you can abbreviate this as cpctc open to angles of equal measure prove that the angles formed s by the shaft and the ribs are congruent 1 2

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