

Digestive System Simulation

Lesson Concept

The digestive system consists of the mouth/teeth, esophagus, stomach, small and large intestine, colon, rectum/anus.

(Teacher Note: The pancreas, liver, and gall bladder also play a role in the digestive system but they are not addressed here because they are not in the California standards for grade 5.)

Link

In the previous lesson, students learned about how digestions begin in the mouth. In this lesson, students will learn the structure and function of the other organs of the digestive system. In the next lesson, students will show their understanding of the digestive system in a creative writing.

Time 45 minutes

Materials

Whole Class

Digestion Story (R1)

Per Group of 4-6 students

1 Ziploc sandwich bag (mouth)

1 Ziploc quart sized bag (stomach)

Piece of flexible clear tube (esophagus)—see advance preparation

1 Leg of a panty-hose (small intestine)

1 Knee-high nylon (large intestine and colon)

2 5-8 oz Paper cups; one with a slit cut in the bottom (rectum and anus)

Duct tape (to connect mouth to esophagus; stomach to small intestine; small intestine to large intestine)

1/2 Banana

4-5 Saltine crackers

2-3 oz Water (approximately 60 mls)

Digestive System Lesson Plans 5th Grade

Holly Berry Irving

Digestive System Lesson Plans 5th Grade:

Differentiated Lessons and Assessments - Science, Grade 5 Julia McMeans, 2010 Practical strategies activities and assessments help teachers differentiate lessons to meet the individual needs styles and abilities of students Each unit of study includes key concepts discussion topics vocabulary and assessments in addition to a wide range of activities for visual logical verbal musical and kinesthetic learners Helpful extras include generic strategies and activities for differentiating Composting, Grade 5 Carla C. Johnson, Janet B. Walton, Erin E. lessons and McREL content standards Peters-Burton, 2023-08-15 What if you could challenge your fifth grade students to investigate the role of composting in solid waste management With this volume in the STEM Road Map Curriculum Series you can Composting outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary four lesson module uses project and problem based learning to help students use the engineering design process EDP to design and create prototypes of compost systems and build a full scale composting system for school use Students will synthesize their learning about biotic and abiotic factors decomposition and engineering design as they learn about various types of compost systems create their own portable compost bins and create materials for a composting publicity campaign at their school To support this goal students will do the following Identify and explain interdependent relationships in ecosystems Compare and contrast several ecosystems Describe how compost systems are designed and constructed and apply this understanding to creating prototypes of various compost systems Understand the concept of scale and apply this understanding to create scaled models of compost systems Apply their understanding of composting compost systems and the EDP to create a full scale compost system for the school Measure various characteristics of compost The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Composting can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach

Hands-On Science and Technology, Grade 5 Jennifer Lawson, 2008-11-13 This teacher resource offers a detailed introduction to the Hands On Science and Technology program guiding principles implementation guidelines an overview of the science skills that grade 5 students use and develop and a classroom assessment plan complete with record keeping templates It also includes connections to the Achievement Levels as outlined in The Ontario Curriculum Grades 1 8 Science and Technology 2007 This resource has four instructional units Unit 1 Human Organ Systems Unit 2 Forces Acting on Structures and Mechanisms Unit 3 Properties of and Changes in Matter Unit 4 Conservation of Energy and Resources Each unit is divided into lessons that focus on specific curricular expectations Each lesson has curriculum expectation s lists materials lists activity descriptions assessment suggestions activity sheet s and graphic organizer s Hands-On Science

and Technology for Ontario, Grade 5 Jennifer E. Lawson, 2020-09-07 Experienced educators share their best classroom tested ideas in this teacher friendly activity based resource The grade 5 book is divided into four units Human Organ Systems Forces Acting on Structures and Mechanisms Properties of and Changes in Matter Conservation of Energy and Resources STAND OUT COMPONENTS custom written for the Ontario curriculum uses an inquiry based scientific and technological approach builds understanding of Indigenous knowledge and perspectives TIME SAVING COST EFFECTIVE FEATURES includes resources for both teachers and students a four part instructional process activate action consolidate and debrief enhance an emphasis on technology sustainability and personalized learning a fully developed assessment plan for assessment for as and of learning a focus on real life technological problem solving learning centres that focus on multiple intelligences and universal design for learning UDL land based learning activities and Makerspace centres access to digital image banks and digital reproducibles Find download instructions in the Appendix of the book Arts Integration in Diverse K-5 Classrooms Liane Brouillette, 2019 This practical resource emphasizes the special contribution that visual art drama music and dance can make to student literacy and understanding of content area reading assignments Focusing on those areas where students tend to struggle this book helps K 5 teachers provide an age appropriate curriculum that is accessible to an increasingly diverse student population but does not ignore other important aspects of healthy human development Without detracting from the rigor of a demanding curriculum Brouillette demonstrates how arts integration allows students to engage with concepts on their own developmental level Each chapter focuses on a skill set that is fundamental to literacy development suggests age appropriate arts integration activities that will build that skill and offers guidance for fostering a sense of community A thoughtful look into issues surrounding arts integration as a viable strategy for increasing students achievement and access to higher education and career pathways Kristen Greer Paglia CEO P S ARTS An excellent guide to teachers aspiring to integrate the arts into their curriculum it is both a delightful and useful read Liora Bresler University of Illinois Champaign Urbana Milliken's Complete Book of Instant Activities - Grade 5 Deborah Kopka, 2010-09-01 With more than 110 easy to use reproducible worksheets this series is ideal for enrichment or for use as reinforcement The instant activities in these books are perfect for use at school or as homework They feature basic core subject areas including language arts math science and social studies Resources for Teaching Elementary School Science National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution, 1996-04-28 What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in Resources for Teaching Elementary School Science A completely revised edition of the best selling resource guide Science for Children Resources for Teachers

this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems. The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education Resources for Teaching Elementary School Science also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations Elementary School Wellness Education Matthew Cummiskey, Frances Cleland Donnelly, 2022-06-20 Health and parents education and physical education are traditionally siloed for no good reason according to authors Matthew Cummiskey and Frances Cleland Donnelly So through Elementary School Wellness Education the two authors provide a blueprint complete with lesson plans for teachers to fuse health education and physical education into one elementary school class Students should be educated in a more holistic manner says Cummiskey We applied the concept of school wellness education at the elementary level which has components of both traditional health education and physical education Elementary School Wellness Education offers the following 37 detailed lesson plans for grades K 5 19 lessons for K 2 and 18 lessons for grades 3 5 that are tied to SHAPE America Outcomes and National Health Education Performance Indicators Clear instruction on how to apply the plans making it perfect for both preservice and in service teachers More than 70 lesson plan handouts with four color graphics available in the HKPropel platform that are easy for teachers to print A test package presentation package and instructor guide that make this ideal for existing and emerging teacher education courses A typical School Wellness Education SWE lesson combines classroom based learning activities such as discussions worksheets and videos with physical activity All the lessons in the book take place in the gymnasium so there s no need for a separate health education classroom In addition the SWE approach helps teachers maximize their instruction time by meeting multiple learning standards

simultaneously The lessons are learning focused with each activity carefully aligned to the objectives says Cleland Donnelly Moreover they re fun Students aren t sitting in a traditional classroom learning health they re doing it in the gym SWE also uses traditional PE equipment and the gym in new and creative ways she adds This is especially important in schools that lack a separate health education classroom Elementary School Wellness Education addresses emergent pedagogies such as skill based education universal design for learning social and emotional learning and social justice helping both in service and preservice teachers understand how to use and benefit from these pedagogical approaches It also guides readers in how to teach wellness education online as effectively as face to face Teachers will learn how to teach the content in person online or in a hybrid approach The good news for teachers is that SWE is not a dramatic departure from existing instruction says Cummiskey Students are still moving and being taught in the gymnasium but now health content and skills are being infused into all the lessons The book he says is also suitable for use by classroom teachers looking to promote wellness or incorporate additional physical activity into their students days The intent is to imbue students with the knowledge skills and dispositions to lead a healthy life into and through adulthood he says Note A code for accessing HKPropel is included with this ebook

Nutrition Education Materials Holly Berry Irving,1987 Quick Bibliography Series ,1976

Digestive System Lesson Plans 5th Grade Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Digestive System Lesson Plans 5th Grade**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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