Plant Parts Salad

Grade 1

Standards
GPS S1L1c (science)
NGSS 1.LS1.A (science)
HE1.1 a (health)

Time
(2-3) 45 minute periods over 2 days

Supplies
- Salad spinner or strainer
- Veggies/greens harvested from garden representing different parts of plants (supplemented by purchased vegetables, if needed) for both sorting and salad-making
- Salad dressing – several choices OR ingredients for vinaigrette including oil, vinegar, herbal seasonings
- Large salad bowl, whisk, serving utensils
- Tasting materials (small paper cups and forks- one per student)
- Book: Eat Healthy, Feel Great by William Sears OR The Vegetables We Eat by Gail Gibbons
- 6 index cards, each labeled with a plant part
- 3 – 4 straw bales for compost heap (optional; directions in lesson)
- Student garden/science journals

Garden Connection
Students will grow and harvest fall (or spring) vegetables in a garden.

Note
If using fruits and vegetables from a store or market, purchase plants that would typically be grown in the school garden, such as nutritional leafy green lettuce rather than a head of less-nutritional iceberg.

Overview
Students will harvest vegetables from the garden, taste a variety of plants and learn about their nutritional value. Students will learn parts of a plant by making a 'plant parts salad.'

Guiding Questions
What can I grow in the garden that I can eat?
How do I know if I'm eating healthy foods?
What are the parts of a plant and what does each part do for the plant?

Engaging Students
Students will sort a group of fruits and vegetables by parts of plants.

Exploration
Students will listen to a book about healthy eating and harvest vegetables from the school garden to make a salad that contains all the parts of a plant: leaves, stems, roots, flowers, and fruits, seeds or nuts.

Explanation
Students will be able to explain which vegetables come from which parts of a plant, based on the functions of different plant parts. Students will also understand that a variety of fruits and vegetables of different colors provides the widest nutritional value.

Environmental Stewardship
Students will compost leftover salad ingredients and care for an organic school garden from which vegetables can be harvested for healthy eating.

Evaluation
Students will be able to sort plant parts accurately and explain plant part functions. Students will also be able to gauge how healthy their food choices are by counting the number of colors on the plate (as an indicator of the variety of vegetables and therefore nutrients). A rubric is provided to assess student demonstration of competency in identifying plants parts, explaining functions, and describing healthy eating as it relates to fruits and vegetables.

Plant Environments Lesson Plans First Grade

Minneapolis Public Schools. Board of Education

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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 and parents *Resources in Education* ,2001-10

Research in Education ,1974 **Soil & Water Conservation News** ,1986 **The School Garden Curriculum** Kaci Rae Christopher,2019-04-23 Sow the seeds of science and wonder and inspire the next generation of Earth stewards The School Garden Curriculum offers a unique and comprehensive framework enabling students to grow their knowledge throughout the school year and build on it from kindergarten to eighth grade From seasonal garden activities to inquiry projects and science skill building children will develop organic gardening solutions a positive land ethic systems thinking and instincts for ecological stewardship The world needs young people to grow into strong scientifically literate

environmental stewards Learning gardens are great places to build this knowledge yet until now there has been a lack of a multi grade curriculum for school wide teaching aimed at fostering a connection with the Earth The book offers A complete K 8 school wide framework Over 200 engaging weekly lesson plans ready to share Place based activities immersive learning and hands on activities Integration of science critical thinking permaculture and life skills Links to Next Generation Science Standards Further resources and information sources A model and guide for all educators The School Garden Curriculum is the complete package for any school wishing to use ecosystem perspectives science and permaculture to connect children to positive land ethics personal responsibility and wonder while building vital lifelong skills AWARDS FINALIST 2019 Foreword INDIES Education *Conservation Education and Outreach Techniques* Susan K. Jacobson,Mallory McDuff,Martha Monroe,2015-09-03 The conservation of biological diversity depends on people s knowledge and actions This book presents the theory and practice for creating effective education and outreach programmes for conservation The authors describe an exciting array of techniques for enhancing school resources marketing environmental messages using social media developing partnerships for conservation and designing on site programmes for parks and community centres Vivid case studies from around the world illustrate techniques and describe planning implementation and evaluation procedures enabling readers to implement their own new ideas effectively Conservation Education and Outreach Techniques now in its second edition and updated throughout includes twelve chapters illustrated with numerous photographs showing education and outreach programmes in action each incorporating an extensive bibliography Helpful text boxes provide practical tips guidelines and recommendations for further exploration of the chapter topics This book will be particularly relevant to conservation scientists resource managers environmental educators students and citizen activists It will also serve as a handy reference and a comprehensive text for a variety of natural resource and environmental professionals *Teachers' Monographs* ,1919 **Plants in the Classroom** Christopher Meade Hastings,1999 Annual Report Minneapolis Public Schools. Board of Education,1901 **Minneapolis Public Schools** Minneapolis Public Schools. Board of Education,1899

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