# Science Dissection Lesson Plan

The 5 E's format: Engage Explore Explain Evaluate Expand

# Objectives:

The student will be able to . . .

- 1. Sort parts of a tulip into piles of identical parts during a lab.
- 2. Label the basic parts of a flower on a blank diagram with 80% accuracy.
- 3. Match the parts of a flower with their main functions on a unit test.
- 4. Compare and contrast a stamen and a pistil on a unit test.
- 5. Successfully dissect a flower, with a lab partner, using the provided materials.
- 6. Orally define pollination and fertilization in their own words.
- Exhibit good team work and cooperation during labs.
- 8. Follow safety procedures at all times during labs.
- 9. Participate physically in both labs.
- Identify and list the existing and missing parts on a daisy/carnation during lab.

#### Materials:

For each group of students (3-4 students each):

- · Daffodil, tulip, or lily
- Carnation or daisy
- Plastic knife
- Small magnifying glass
- Flower dissection and \*
- Pen or pencil
- Newspaper to cover station surface \*
- . Small trash bag \*
- Plastic gloves (for students with allergies)

#### For each student:

- Instruction sheets for explore activity \*
- Recording for the "expand" activity
- Flower crossword sheet

#### For the teacher:

- · Picture printouts
- Assessment rubric for extension activity participation
- Assessment rubric for explore activity
- Word wall cards
- Magnets or tape to hold up word wall cards

Pass these out before beginning lab lesson.



# **Flower Dissection Lesson Plan**

**N Noddings** 

#### **Flower Dissection Lesson Plan:**

Building a Pathway to Student Learning Steven G. Jones, Robert K. Noyd, Kenneth S. Sagendorf, 2023-07-03 This book leads you through the process of designing a learning centered course It is written as a how to handbook providing step by step guidance on creating a pathway to student learning including 26 workboxes also available free online that lead you through each element of the course design process and promote a rich reflection process akin to being in a workshop setting The authors prompt you to 1 consider the distinctive characteristics of your students 2 clearly articulate your course learning goals 3 create aligned summative assessments 4 identify the specific knowledge skills and attitudes students will need in order to be successful 5 craft effective learning experiences informed by the well documented research on how people learn and 6 incorporate formative assessment to ensure you and your students are staying on track Completion of the sequence of worksheets leads to a poster as a visual display of your course design This graphic depiction of your course ties the components together provides a clear map of action for teaching your course for modifying as you evaluate the success of particular strategies or want to introduce new concepts and for developing your syllabus A rubric for evaluating course posters is included For faculty developers this book provides a proven and ready made resource and text around which to design or redesign learner centered course design workshops or multi day course design retreats replicating or modifying the renowned workshop that the authors have developed at the Air Force Academy for both faculty new to teaching and those with many years of teaching experience under their belt **Resources in Education** ,1992 **Annual Editions** Karen M. Paciorek, Joyce H. Munro, 1997 Science Teaching In Schools R. C. Das, 1990 Early Childhood Education Karen Menke Paciorek, Joyce Huth Munro, 1996 Early childhood education is an interdisciplinary field that includes child development family issues educational practices behavior guidance and curriculum The book brings you the latest information on the field from a wide variety of recent journals newspapers and magazines In making the selections of articles the editors were careful to provide the reader with a well balanced look at the issues and concerns facing teachers families society and children Given the wide range of topics it includes the book may be used with several groups undergraduate or graduate students studying early childhood education professionals pursuing further development or parents seeking to Instructor, 1995 Early Childhood Education, 98-99 Karen M. Paciorek, Joyce H. improve their skills To the reader The Joy of Botanical Drawing Wendy Hollender, 2020-04-07 A gorgeous easy to follow and inspiring guide to Munro, 1998 stunningly realistic botanical drawing that covers everything you need to draw our natural world Achieve amazingly realistic and vibrant botanical illustrations from flowers so dazzling you feel as if you might be able to smell them to tomatoes that look as if they ve just been picked from the garden Wendy Hollender is known for her vivid detailed and inspiring illustrations and in The Joy of Botanical Drawing she helps you take your art to the next level by sharing her perfected techniques through short lessons that start simple then build on the basics with easy to use and clear step by step illustrations Using colored

pencils and watercolor pencils Hollender shows you how to accomplish scientifically accurate botanical portraits of a spiraling pine cone a spiky chestnut a fuchsia tined radish a graceful morning glory and many more From colorful leaves to delicate petals to textured bark and slender stems The Joy of Botanical Drawing will give you the skills to complete lifelike drawings while also enjoying nature and the mindfulness of a regular drawing practice **Research as Transformative** Learning for Sustainable Futures, 2019-03-27 In a rapidly globalizing world the pressing challenge for science and mathematics educators is to develop their transdisciplinary capabilities for countering the neo colonial hegemony of the Western modern worldview that has been embedded historically like a Trojan Horse in the international education export industry Research as Transformative Learning for Sustainable Futures introduces the world to next generation multi worldview research that empowers prospective educational leaders with a vision and voice for designing 21st century educational policies and practices that foster sustainable development of the diverse cultural capital of their multicultural societies At the heart of this research are the principles of equity inclusiveness and social justice The book starts with accounts of the editors extensive experience of engaging culturally diverse educators in postgraduate research as transformative learning A unique aspect of their work is combining Eastern and Western wisdom traditions In turn the chapter authors teacher educators from universities across Asia Southern Africa the Middle East and the Pacific share their experience of research that transformed their philosophies of professional practice. They illustrate the following aspects of their engagement in research as transformative learning for sustainable futures excavating auto ethnographically their lifeworld experiences of learning and teaching developing empowering scholarly perspectives for analysing critically and reflexively the complex cultural framings of their professional practices re visioning their cultural and professional identities articulating transformative philosophies of professional practice and enacting transformative agency on return to their educational institutions Contributors are Naif Mastoor Alsulami Shashidhar Belbase Nalini Chitanand Alberto Felisberto Cupane Suresh Gautam Bal Chandra Luitel Neni Mariana Milton Norman Medina Doris Pilirani Mtemang ombe Emilia Afonso Nhalevilo Hisashi Otsuji Binod Prasad Pant Sadruddin Bahadur Qutoshi Yuli Rahmawati Indra Mani Rai Yamphu Siti Shamsiah Sani Indra Mani Shrestha Mangaratua M Simanjorang and Peter Charles Taylor The Journal of Education ,1888

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