Genetics Problem Solving

Please bring your textbook to this laboratory session.

A. Objectives
Become familiar with
1. Probability calculations
2. Solving genetics problems

B. Before lab
3. Read *Probability is used to predict inheritance* and *Mendel's laws can be observed in human pedigrees* on pages 150-151 of your textbook. Also, review linked genes and the construction of genetic maps on pages 156-158.
4. **In your notebook**, answer questions 1-3, 11, and 21 - 23 in part E below.

C. During lab
In groups of four, work through the genetics problems. You can fill your answers directly into the worksheet. However, remember to include this exercise in the table of content of your lab notebook, glue the pages in and have them signed by your instructor.

D. After lab
1. Finish the worksheet if you have not done it in lab.
2. Practice solving genetics problems (e.g.,
    http://www.ndsu.nodak.edu/instruct/mcclean/plsc431/mendel/mendel1.htm

E. Predicting the outcome of various crosses

1. A female <u>carrier</u> of Tay-Sachs wants to have a child with a male carrier for Tay-Sachs. Tay-Sachs is inherited in an <u>autosomal recessive</u> manner. Using the letters "T" and "t" fill out the following table.

	Female	Male
Genotype		
Phenotype		
Genotypes of sperm/ova		

2. Determine the probability of them having a child with Tay-Sachs using a Punnett square (page 147 in Hillis).

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S Ashworth

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Frontiers - Pioneers, Genetics, and Energy Brenda McGee,Sarah Wolfinsohn,2007-07 Frontiers Books 1 Pioneers Genetics and Energy is the first of three books in the Differentiated Curriculum Kit for Grade 6 Students will explore forgotten pioneers in Westward expansion the Civil Rights Movement and medicine In this book students will discover the frontiers of today but not before they learn to appreciate the forgo   **Resources in Education** ,1987   Prentice Hall Science Anthea Maton,Jill D. Wright,Jean Hopkins,Susan Johnson,David Lahart,Maryanna Quon Warner,1994   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

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