2014 HEREDITY (B) TRAINING HANDOUT by Karen L. Lancour

- DISCLAIMER This presentation was prepared using draft rules. There may be some changes in the final copy of the rules. The rules which will be in your Coaches Manual and Student Manuals will be the official rules.
 - BE SURE TO CHECK THE 2014 EVENT RULES for EVENT PARAMETERS and TOPICS FOR EACH COMPETITION LEVEL

TRAINING MATERIALS:

- Training Power Point presents an overview of material in the training handout
- Training Handout presents introductory topic content information for the event
- Sample Tournament has sample problems with key
- Event Supervisor Guide has event preparation tips, setup needs and scoring tips
- Internet Resource & Training Materials are available on the Science Olympiad website at www.soinc.org under Event Information.
- A Biology-Earth Science CD, a Genetics CD for Heredity and Designer Genes (new) as well as the Division B and Division C Test Packets are available from SO store at www.soinc.org

Content

Basic principles of genetics

Common genetic disorders will apply at all levels

Process Skills - data analysis, predictions, calculations, inferences, observations

Areas at the various levels to be tested will include:

Regional and State	Regional & State	National (all topics)		
Monohybrid cross	Dihybrid cross	Pedigree construction and analysis		
Dominant and recessive alleles	Sex-linked traits	Production of gametes with Abnormal #'s of chromosom		
Genotype vs. phenotype	Pedigree analysis	Trihybrid cross (probability analysis)		
Human sex determination	Multiple alleles	Analysis of karyotypes for deletion, addition, translocation		
Gene: protein relationship	DNA structure & replication	Transcription and translation		
Mitosis	Meiosis and gamete formation	Multifactorial traits		
Human karyotypes analysis for nondisjunction disorders	Co-dominance & Incomplete Dominance	Epistasis		

Note: This event may be run as stations but it need not be. The best competition is as stations using process skills and problem solving.

Heredity Science Olympiad Study Guide

Ensheng Dong

Heredity Science Olympiad Study Guide:

Reviewing **Heredity Science Olympiad Study Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "Heredity Science Olympiad Study Guide," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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