



OGT Science Quiz ~ 10th Grade

ACADEMIC STANDARD: LIFE SCIENCES

Variation in a Species
(Benchmark E, Indicator 13)

- 1) How could a population respond to changes in the environment?

- 2) Pine rust strikes two forests. Forest #1 is 89% pine trees and 11% other tree species. Forest #2 is 25% maple, 30% birch, 20% pine, 10% oak, and 15% walnut. Which forest is most likely to survive? _____ Why?

- 3) Describe how each of the following forces can have an effect on variation.
 - a) mutation
 - b) gene flow
 - c) nonrandom mating
 - d) genetic drift
 - e) natural selection

WRITTEN RESPONSE QUESTION:

- 4) A young man with heterozygous alleles for brown hair has hemophilia. Which gene trait, hemophilia or hair color, will be most affected by natural selection? _____
Justify your response.

NAME: _____ Date: _____ Score: _____

Microsoft Word - COMBINED SCIENCE GRADE 10-ALL LESSONS.doc) For: (Jay) Created: 13:56:45 01/25/08 By: Adobe Acrobat 7.0
2400.0 dpi (Screened Data File PDS, Right-Reading, Mono, Std-OPR Simulated Spot Colors) [A80:100 Scaling Percent: Ht 110 Wd 100
FS Version: 3015.102 HQN Version 7.0 Revision 90 RSI System 10.4 Build: #34, Ripped on Friday, January 25, 2008 2:02:08 PM
ID: KELLIV

