

Day 11 Review

Epigenetics

Genes & The Environment

- Many of your personal traits are only partially governed by genetics.
- Environmental factors can have an effect on gene expression.
- **Epigenetics** is the study of heritable changes in gene expression or cellular phenotype caused by mechanisms other than changes in the underlying DNA sequence.



Environmental influences on gene expression.

Environmental influences on gene expression

- Temperature
- Nutrition
- Light
- Chemicals
- Infectious agents



■ Ex. In arctic foxes

Classwork

Go to Discovery Ed and complete the [board](#) on Genetics Review.

Review

[Quizlet](#)

Review BINGO

1. Genotype
 2. Budding
 3. Binary fission
 4. Regeneration
 5. Chromosome
 6. Interphase
 7. Prophase
 8. Metaphase
 9. Anaphase
 10. Telophase
 11. Cytokinesis
 12. Meiosis
 13. Gamete
- Fertilization
Egg
Sperm
Haploid
Diploid
Gene
Allele
Heterozygous
Homozygous
Dominant
Recessive
Phenotype