

Unit 4 Gene Expression and Regulation: Learning Target Review for the Review Project (AP Classroom Unit 6)

Learning Target	Rating				
1. I can describe the structures involved in passing hereditary information from one generation to the next.	1	2	3	4	5
Your evidence:					
2. I can describe the characteristics of DNA that allow it to be used as the hereditary material.	1	2	3	4	5
Your evidence:					
3. I can describe the mechanisms by which genetic information is copied for transmission between generations (i.e. DNA replication).	1	2	3	4	5
Your evidence:					
4. I can describe the mechanisms by which genetic information flows from DNA to RNA to protein (primary focus = transcription).	1	2	3	4	5
Your evidence:					

5. I can explain how the phenotype of an organism is determined by its genotype (primary focus = translation).	1	2	3	4	5
Your evidence:					
6. I can describe the types of interactions that regulate gene expression.	1	2	3	4	5
Your evidence:					
7. I can explain how the location of regulatory sequences relates to their function.	1	2	3	4	5
Your evidence:					
8. I can explain how the binding of transcription factors to promoter regions affects gene expression and/or the phenotype of the organism.	1	2	3	4	5
Your evidence:					

9. I can explain the connection between the regulation of gene expression and phenotypic differences in cells and organisms.	1	2	3	4	5
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Your evidence:

10. I can describe the various types of mutation.	1	2	3	4	5
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Your evidence:

11. I can explain how changes in genotypes my result in changes in phenotype.	1	2	3	4	5
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Your evidence:

12. I can explain how alterations in DNA sequences contribute to variation that can be subject to natural selection.	1	2	3	4	5
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Your evidence:

13. I can explain the use of genetic engineering techniques in analyzing or manipulating DNA.	1	2	3	4	5
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Your evidence:

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