

	OBJECTIVES	ACTIVITIES	RESOURCES	HOMEWORK	EVALUATION	STANDARDS		
MON	Heredity: Inheritance and Variation of Traits: Genetics & Biotechnology	Bell Ringer: Distinguish between DNA and RNA. Candy DNA Lab Questions Candy DNA Lab Report	✓	Textbook	Genetic Disorders Essay Due: 2/17/2025		Oral Responses	<p>11. Develop and use models to demonstrate how genetic variations between parents and offspring result from differences in inherited genes located on chromosomes.</p> <p>12. Develop and use models to explain how genes are expressed through the flow of genetic information from DNA to RNA to a functional protein.</p> <p>13. Develop and use models to explain that meiosis results in new genetic combinations with increased variation. a. Construct an explanation of the advantages and disadvantages of asexual and sexual reproduction. b. Construct an explanation from evidence of how genetic variants may result in harmful, beneficial, or neutral effects on the structure and function of an organism.</p> <p>14. Obtain, evaluate, and communicate information on the use of technologies that impact the inheritance and appearance of traits in organisms</p>
			✓	Laboratory Experience		✓	Homework	
				Video		✓	Notebook	
				Slides / Pictures			Quiz	
				Assessment			Major Test	
			✓	Handout / Worksheet		✓	Project/Report/Presentation	
				Chart / Graph		✓	Daily Work	
				Map / Model			Observation	
			✓	Chromebook/Computer		✓	Worksheet/Handout	
				PowerPoint		✓	Lab/ Lab Composition	
	Other:	✓	Class/Group Participation					
TUE	Heredity: Inheritance and Variation of Traits: Genetics & Biotechnology	Bell Ringer: What is the first step in making a protein? Amoeba Sisters: DNA v. RNA Amoeba Sisters Recap	✓	Textbook	Genetic Disorders Essay Due: 2/17/2025		Oral Responses	<p>11. Develop and use models to demonstrate how genetic variations between parents and offspring result from differences in inherited genes located on chromosomes.</p> <p>12. Develop and use models to explain how genes are expressed through the flow of genetic information from DNA to RNA to a functional protein.</p> <p>13. Develop and use models to explain that meiosis results in new genetic combinations with increased variation. a. Construct an explanation of the advantages and disadvantages of asexual and sexual reproduction. b. Construct an explanation from evidence of how genetic variants may result in harmful, beneficial, or neutral effects on the structure and function of an organism.</p> <p>14. Obtain, evaluate, and communicate information on the use of technologies that impact the inheritance and appearance of traits in organisms</p>
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				Assessment			Major Test	
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				Chart / Graph		✓	Daily Work	
				Map / Model			Observation	
			✓	Chromebook/Computer		✓	Worksheet/Handout	
			✓	PowerPoint		✓	Lab/ Lab Composition	
	Other:	✓	Class/Group Participation					
WED	Heredity: Inheritance and Variation of Traits: Genetics & Biotechnology	Bell Ringer: Where does translation take place? Amoeba Sisters: Protein Synthesis Amoeba Sisters Recap: Protein Synthesis	✓	Textbook	Genetic Disorders Essay Due: 2/17/2025		Oral Responses	<p>11. Develop and use models to demonstrate how genetic variations between parents and offspring result from differences in inherited genes located on chromosomes.</p> <p>12. Develop and use models to explain how genes are expressed through the flow of genetic information from DNA to RNA to a functional protein.</p> <p>13. Develop and use models to explain that meiosis results in new genetic combinations with increased variation. a. Construct an explanation of the advantages and disadvantages of asexual and sexual reproduction. b. Construct an explanation from evidence of how genetic variants may result in harmful, beneficial, or neutral effects on the structure and function of an organism.</p> <p>14. Obtain, evaluate, and communicate information on the use of technologies that impact the inheritance and appearance of traits in organisms</p>
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				Chart / Graph		✓	Daily Work	
				Map / Model			Observation	
			✓	Chromebook/Computer		✓	Worksheet/Handout	
			✓	PowerPoint		✓	Lab/ Lab Composition	
	Other:	✓	Class/Group Participation					
THUR	Heredity: Inheritance and Variation of Traits:	Bell Ringer: What is a mutation? Amoeba Sisters: Mutations	✓	Textbook	Genetic Disorders Essay Due: 2/17/2025		Oral Responses	<p>11. Develop and use models to demonstrate how genetic variations between parents and offspring result from differences in inherited genes located on chromosomes.</p> <p>12. Develop and use models to explain how genes are expressed through the flow of genetic</p>
				Laboratory Experience		✓	Homework	
			✓	Video		✓	Notebook	
				Slides / Pictures			Quiz	
				Assessment			Major Test	

	<p align="center">Genetics & Biotechnology</p>	<p>Amoeba Sisters Recap: Mutations</p>	<input checked="" type="checkbox"/>	<p>Handout / Worksheet</p> <p>Chart / Graph</p> <p>Map / Model</p> <p>Chromebook/Computer</p> <p>PowerPoint</p> <p>Other:</p>		<input checked="" type="checkbox"/>	<p>Project/Report/Presentation</p> <p>Daily Work</p> <p>Observation</p> <p>Worksheet/Handout</p> <p>Lab/ Lab Composition</p> <p>Class/Group Participation</p>	<p>information from DNA to RNA to a functional protein.</p> <p>13. Develop and use models to explain that meiosis results in new genetic combinations with increased variation. a. Construct an explanation of the advantages and disadvantages of asexual and sexual reproduction. b. Construct an explanation from evidence of how genetic variants may result in harmful, beneficial, or neutral effects on the structure and function of an organism.</p> <p>14. Obtain, evaluate, and communicate information on the use of technologies that impact the inheritance and appearance of traits in organisms</p>
<p align="center">FRI</p>	<p align="center">Heredity: Inheritance and Variation of Traits: Genetics & Biotechnology</p>	<p>Bell Ringer: What are the three types of mutations? A Day in Review Ch.5</p>	<input checked="" type="checkbox"/>	<p>Textbook</p> <p>Laboratory Experience</p> <p>Video</p> <p>Slides / Pictures</p> <p>Assessment</p> <p>Handout / Worksheet</p> <p>Chart / Graph</p> <p>Map / Model</p> <p>Chromebook/Computer</p> <p>PowerPoint</p> <p>Other:</p>	<p align="center">Genetic Disorders Essay Due: 2/17/2025</p>	<input checked="" type="checkbox"/>	<p>Oral Responses</p> <p>Homework</p> <p>Notebook</p> <p>Quiz</p> <p>Major Test</p> <p>Project/Report/Presentation</p> <p>Daily Work</p> <p>Observation</p> <p>Worksheet/Handout</p> <p>Lab/ Lab Composition</p> <p>Class/Group Participation</p>	<p>11. Develop and use models to demonstrate how genetic variations between parents and offspring result from differences in inherited genes located on chromosomes.</p> <p>12. Develop and use models to explain how genes are expressed through the flow of genetic information from DNA to RNA to a functional protein.</p> <p>13. Develop and use models to explain that meiosis results in new genetic combinations with increased variation. a. Construct an explanation of the advantages and disadvantages of asexual and sexual reproduction. b. Construct an explanation from evidence of how genetic variants may result in harmful, beneficial, or neutral effects on the structure and function of an organism.</p> <p>14. Obtain, evaluate, and communicate information on the use of technologies that impact the inheritance and appearance of traits in organisms</p>