

Grade 7 Assured Experiences

Note:

- Online curriculum guide under revision. For guidance. Refer to State Standards- GLC's, GLE's and CMT expected performances on Connecticut State Department of Education Website.

Marking Period 1. - Scientific investigation/ Animal Classification

Activity	Resource	Suggestions	Portfolio product
1. Where is the safety equipment in your school, Classroom?	(united streaming), CSDE website, ALL-IN -ONE Teaching Resources Unit- 1,pages 8-17 Text Book - Prentice Hall - Life Science: Page 23; Appendix A Pages 826-827	This should include the following: Lab safety contract, identifying lab equipment, science safety rules, and safety symbols. Posted on District Science Website.	Student Safety Test from Life Science lab manual
2. Controlled Experiment - Ready Or Not	(Text book - Prentice Hall - Life Science Page 631) Laboratory manual: Pages 174-175	Posted under "Assured Experiences Resource" on District Science Website.	Student report
3. Design Your own lab: Keeping Flower fresh OR Becoming a learning detective.	Text Book Prentice Hall - Life Science Page.27, Lab Worksheet: ALL-IN -ONE Teaching Resources UNIT 1, Chapters 1-6 Page 76	Posted under "Assured Experiences Resource" on District Science Website	Student report
4. Students design an experiment (science fair research and proposal)		Give students Science Fair Time Line	Student science Fair proposal and research
5. Discovery Activity: Is it living or nonliving?	(Text book - Prentice Hall - Life Science Page 34)	Posted under "Assured Experiences Resource" on District Science Website	Student report
6. Can you organize a junk Drawer? Optional Extension: organizing Library, Closet, Clothes.	Text book - Prentice Hall - Life Science Page 42)	Posted under "Assured Experiences Resource" on District Science Website	Student report

Marking Period 2. - Cells, Heredity and Genetics

Continue/conclude Science Fair Projects

Activity	Resource	Suggestions	Portfolio product
1. Is seeing believing?	Text book - Prentice Hall - Life Science Page 50. Posted under “Assured Experiences Resource” on District Science Website	Use picture or letters (microscope skills) Lab Worksheet : ALL-IN -ONE Teaching Resources UNIT 1, Chapters 1-6 Pages 129- 133)	Student report
2. Use a microscope to examine cells and tissues	Text book - Prentice Hall - Life Science Page 828 -829 Website: “Cells Alive”. Animal and Plant Cell diagrams posted on “Assured Experiences Resource” on District Science Website Lab Worksheet - ALL-IN - ONE Teaching Resources UNIT 1, Chapters 1-6 Pages 137- 142	Observe animal cell & plant cell. Example: cheek and onion cells. Refer Text book : Prentice Hall - Life Science Page 829.	Student Work
3. Compare and Contrast plant and animal cells by drawing animal & Plant cell diagrams and a VENN diagram comparing both Cell types.	Text book - Prentice Hall - Life Science Pages 64 - 65 Website: “Cells Alive”.		VENN diagram, Animal & Plant cell diagrams
4. Take a class survey: Dominant & Recessive genes	Text book - Prentice Hall - Life Science Page 116. Lab Worksheet : ALL-IN - ONE Teaching Resources UNIT 1, Chapters 1-6 Page 250,286	Posted under “Assured Experiences Resource” on District Science Website	Student Work
5. Complete Punnet Squares	Text book - Prentice Hall - Life Science Pages 120-121 Lab Worksheet: ALL-IN - ONE Teaching Resources UNIT 1, Chapters 1-6 Page 258	Posted under “Assured Experiences Resource” on District Science Website	Student Work

Marking Period 2. - Cells, Heredity and Genetics

Activity	Resource	Suggestions	Portfolio product
6. What do Fingerprints reveal?	Text book - Prentice Hall - Life Science Page 157	Posted under "Assured Experiences Resource" on District Science Website	Completed Student Activity
7. Model or Diagram Mitosis/Meiosis	Text book - Prentice Hall - Life Science Page 96-99- Mitosis; Page 128- Meiosis Guided reading and Study- ALL-IN -ONE Teaching Resources UNIT 1, Chapters 1-6 Pages 265-268 Website: "Cells Alive".	Posted under "Assured Experiences Resource" on District Science Website	Student Work
8. Genetics with a smile. Optional activity: Bird Beak Adaptations	web resources http://sciencespot.net/Pages/classbio.html /hand out	Posted on District Science website	Student Work

Marking Period 3 - Organ Systems/ Food Preservation

Activity	Resource	Suggestions	Portfolio product
1. Examine a chicken wing and identify ligaments, tendons, joins, muscle, and bone.	Text book – Prentice Hall – Life Science Page 487 Lab Worksheet - ALL-IN -ONE Teaching Resources UNIT 3, Chapters 14-20 Page 53	Posted under “Assured Experiences Resource” on District Science Website	Student work
2. Create a model of peristalsis.	Text book – Prentice Hall – Life Science Page 519. Posted under “Assured Experiences Resource” on District Science Website	For a demonstration- use nylon leggings & tennis ball	Student drawing or model
3. Food preservation experiment	Text book – Prentice Hall – Life Science Page 222-223	Posted under “Assured Experiences Resource” on District Science Website	Student – timeline Or Brochure
4.Design an organ System Model	Text book – Prentice Hall – Life Science	Diagram and label – digestive, respiratory systems. Circulatory- 3 types of vessels (Text Book page 540) Heart diagram (Text book – Page 536)	Student drawing or model
5. Embedded Task: Feel the Beat	CSDE Science website		Student report

Marking Period 4 - Ecosystem

Activity	Resource	Suggestions	Portfolio product
1. Create a model of a food web. Identify and describe a food web in a fresh water ecosystem	Text book - Prentice Hall - Life Science Page 767		Student work on food web in a fresh water ecosystem
2. Biome Project.	Text book - Prentice Hall - Life Science Chapter 22 ALL-IN -ONE Teaching Resource Unit 4, Chapters 21-23 Page 133-134	Guidelines provided on district science website	Typed research and brochure
3. You Decide: Animal Overpopulation - Identify the problem, Analyze the options, Find a Solution.	Text book - Prentice Hall - Life Science Pages 720-721		Student Report
4. Air Pollution and Solutions	District Website- Science		1. Student Handout 5- (from website resource) Lesson 1 Activity 1 Page 1-19 Questionnaire. (2) Air pollution IQ quiz Lesson 1 Activity 2 Page 1-28 (3) What is The Clean Air Act? Student Worksheet Lesson 1 Activity 2 Pages 1-42, 1-43