

Biology GA Standards

Characteristics of Science

SCSh2

You will understand lab safety and correctly use science equipment.

SCSh1

You will show the importance of using the following traits in your science courses: curiosity, openness and asking questions.

SCSh3

You will demonstrate how to investigate well and solve science problems. This involves developing well thought-out hypotheses and use correct steps and data in a science experiment.

SCSh4

You will use science equipment to produce tables and graphs, organize information and develop models.

SCSh5

You will show how measurements, tables, graphs are correctly used mathematically to analyze data and develop good scientific explanations.

SCSh6

You will write clear, logical reports and explanations that support and make clear your findings in your labs and research work.

SCSh7

You will analyze how broad areas of science knowledge have been developed in history and present.

SCSh8

You will understand the important characteristics used in science investigations.

SCSh9

You will read a variety of materials from different sources related to the science topics you are studying.

2nd Semester Biology Standards

SB

You will study a wide variety of organisms to help you understand the relationship between single-celled and multi-celled organisms and the increasing complexity of systems.

SB

You will study and analyze the role of natural selection in the development of the theory of evolution.

Biology 2nd Semester

Student Pacing Chart

Week	Mon.	Tue.	Wed.	Thurs.	Fri.
	Review	Lab Review	Ecology Review	Cell Review	Genetics Review
1	Orientation; Rev. syllabus; Lab contract Pre-test	<i>Video: Lab safety</i> symbols Lab/Act. 1: Safety; Lab write-up	Ecology Terms and Concepts Review	Cell Chemistry and Division Terms and Concepts Review	Heredity and Genetics Terms and Concepts Review
	Unit 4	Unit 4	Unit 4	Unit 4	Unit 4
2	Introduce Geological Time	Lab/Act. 2: Looking at Microfossils	Lab/Act 3: Geological Timeline	Dinosaur Video	Introduce Radiometric Dating
	Unit 4	Unit 4	Unit 4	Unit 4	Unit 4
3	Lab/Act. 4 Determining a Fossils Age	Dinosaur reading activity	Lab/Act. 5 Dinosaur storybook	Introduce theories of evolution	Lab/Act. 6 Variations in Populations
	Unit 4	Unit 4	Unit 4	Unit 4	Unit 4
4	Lab/Act. 7 Researching Variety among Dog Breeds	Lab/Act. 8 How is Camouflage an Adaptation	Lab/Act. 9 Darwin's Great Voyage computer work	Lab/Act. 9 cont.	Lab/Act. 10
	Unit 4	Unit 4	Unit 4	Unit 4	Unit 4
5	Introduce Adaptations	Lab/Act. 11	Penguin video	Penguin video	Lab/Act. 12
	Unit 4	Unit 4	Unit 4	Unit 4	Unit 4
6	Lab/Act. 13	Project 4 Evolution Trip Brochure <i>(due in 1 week)</i>	Project 4 Evolution Trip Brochure <i>(due in 1 week)</i>	Review Re-Teach Enrichment	Unit 4 Assessment
	Unit 5	Unit 5	Unit 5	Unit 5	Unit 5
7	Intro to Classification and Diversity of Organisms	Lab/Act 14 Classification Lab	Lab/Act. 15 Cladogram Lab	Lab/Act. 16 Pop-Up for Classification	Quiz on Classification Intro to Microbes
	Unit 5	Unit 5	Unit 5	Unit 5	Unit 5
8	Lab?Act.17 What Did T. Rex taste Like?	Lab/Act. 18 Viral Replication	Lab/Act .19 Modeling Viruses <i>(due 1 week)</i> 128	Video Microbes	Intro to Fungus

9	Unit 5	Unit 5	Unit 5	Unit 5	Unit 5
	Lab/Act. 20 A Fungus Amongus	Intro to Plants	Lab/Act. 21 Analyzing the Effect of Climate on Plants 141	Lab/Act. 22 What is it? A Study of Edible Plant Parts	Lab/Act. 23 Flower Dissection
10	Unit 5	Unit 5	Unit 5	Unit 5	Unit 5
	Lab/Act. 24 Interpreting Annual Tree Rings	Quiz -Fungus and Plant Intro to Animals	Intro to Animals Lab/Act. 25 Recognizing Symmetry 181	Lab/Act. 26 Examining Animal Diversity	Lab/Act. 27 Examining Mammal Teeth
11	Unit 5	Unit 5	Unit 5	Unit 5	Unit 5
	Project 5 Animal Kingdom Booklet (due in 1 week)	Project 5 Animal Kingdom Booklet (due in 1 week)	Project 5 Animal Kingdom Booklet (due in 1 week)	Review Re-Teach Enrichment	Unit 5 Assessment
12	Review	Review	Review	Review	EOCT
	EOCT Review Re-Teach Enrichment	EOCT Review Re-Teach Enrichment	EOCT Review Re-Teach Enrichment	EOCT Review Re-Teach Enrichment	EOCT Assessment

The daily schedule may vary throughout the semester due to school-related functions. It is the teacher's discretion to adjust the schedule as needed.

You are required to take the EOCT (End of the Course Test) for biology in this course. The exact test hasn't been given yet so the pacing chart will be adjusted accordingly to allow the week of comprehensive review to come before the test date.

At the beginning of each class period, expect a short sponge activity and/or various journal entry assignments.

All Assignments are due the day they are given except projects. All projects are due 1 week after the assigned date.

Assignments turned in late will receive the following grade penalties:

- 1 day late - 90% of total grade**
- 2 days late – 85% of total grade**
- 3-5 days late - 80% of total grade**
- 1-2 weeks late - 75% of total grade**
- More than 2 weeks late – 70% of total grade**

Essential Questions for Biology Semester 2

1. What could happen in a lab if good safety practices are used?
2. Why are there so many different animals and plants in the world?
3. What do you need to keep your cells healthy?
4. Why do baby dogs have the same color as their parents?
5. When did dinosaurs roam the earth?
6. Did cavemen and dinosaurs really live together?
7. Are all fossils really big like dinosaurs?
8. What were baby dinosaurs like?
9. Why is carbon dating so hard to figure out?
10. How can you tell how old the dinosaur bone is?
11. What did the teen age dinosaur look for?
12. Where did all the species go?
13. How did birds come to live in Antarctica?
14. What time in geological history would you want to visit?
15. Why are there so many different species on earth?
16. Why are plants different in Canada than in Panama?
17. How would you classify really different animals?
18. What did T. Rex taste like?
19. What kind of microbe can make you really sick?
20. What's the difference between a flu virus and a stomach bacteria?
21. Why do viruses look so strange?
22. What kind of things can grow on bread?
23. What does a flower look like when you take it apart?
24. Why do trees have rings inside them?
25. How do we use the shape of animals to describe them?
26. Do all animals have the same kinds of teeth?
27. How many different kinds of animals are there?
28. Why do animals look so different?
29. What do you not understand in biology?
30. What is confusing to you in biology?