

# Grade 8: 2024-2025 Science

Assessment	Topics Covered	Approximate Date	Standards
<b>Benchmark 1</b>	Marathon Runner	10/29/24	HS-LS1-2, HS-LS1-3, HS-LS1-7
<b>Benchmark 2</b>	Humans vs Bacteria/Evolution of sick humans	1/21/25	HS-LS4-2, HS-LS4-3, HS-LS4-4, HS-LS4-5, HS-LS2-8.
<b>Benchmark 3</b>	Mountain Lions/Food for All	3/25/25	HS-LS4-3, HS-LS3-2, HS-LS3-3, HS-LS1-8 HS-LS2-1, HS-LS1-5, HS-LS2-4, HS-LS2-3, HS-LS1-6.

# Grade 8 Pacing Guide

## [Course Map](#)

Assessment	Approximate Date	Standards	Labs/Investigations
Week 1	9/8-9/13	HS-LS1-2, HS-LS1-3, HS-LS1-7. (6 weeks) Marathon Runner. Anchoring Phenomena - <a href="#">On the Run – 2013 ING NYC Marathon Recap (youtube.com)</a> <a href="#">BIO   U1   Marathon Runner   Teacher Materials   Summer 2022.pdf (newvisions-uploads-production.s3.amazonaws.com)</a>	Lab Safety
Week 2	9/16-9/20	Gas Exchange and Respiration <a href="#">Gaseous exchange between alveoli and capillaries (youtube.com)</a>	Microscope basics
Week 3	9/23-9/27	Muscles and Energy <a href="#">Insulin and glucagon (video)   Khan Academy</a> <a href="#">How Sweet Is It? – The Nutrition Source (harvard.edu)</a>	<b>Cell comparison/Photosynthesis</b>
Week 4	9/30-10/2 (OFF 10/3-10/4)	Thermoregulation	Human Thermoregulation
Week 5	10/7-10/11	Water Balance <a href="#">Goldfish, released into the wild, are somehow surviving in saltwater   Mashable</a>	Enzymes/Diffusion
Week 6	10/15-10/18 (OFF10/14)	Unit Closing <a href="#">Pass The Salt?   Runner's World (runnersworld.com)</a> <a href="#">Hydration - What You Need to Know   Hammer Nutrition</a>	Macronutrient Transport-Part 1
Week 7	10/28-11/1	Benchmark 1 – 10/29	Cellular respiration and experimental design
Week 8	11/4-11/8 (OFF 11/5)	HS-LS4-2, HS-LS4-3, HS-LS4-4, HS-LS4-5, HS-LS2-8. (6 weeks) Humans vs. Bacteria. Anchoring phenomena- The Black Death <a href="#">Humans vs. Bacteria   New Visions - Science</a>	Circulation and respiration
Week 9	11/11-11/15 (OFF 11/11, ½ day 11/14)	Antibiotic resistance.	Antibiotic resistance simulation
Week 10	11/18-11/22	Microbiomes	Germiest surface
Week 11	11/25-11/26	<b>Thanksgiving Recess</b>	State Lab – 1 Exploring Feedback and Homeostasis

# Grade 8 Pacing Guide

## [Course Map](#)

Week 12	12/2-12/6	Cooperation and survival.	
Week 13	12/9-12/13	HS-LS1-1, HS-LS3-1, HS-LS3-2, HS-LS4-1, HS-ETS1-2, HS-ETS1-3. (6 weeks) Evolution of sick humans. <a href="#">Evolution of Sick Humans   New Visions - Science</a> Anchoring phenomena.  Lactase Persistence.	State Lab – 2 Lactose Intolerance
Week 14	12/16-12/20	Leptin resistance Circadian Rhythms	
Week 15	1/6-12/10	Common Ancestry/Unit Closing	cladograms
Week 16	1/13-1/17	HS-LS4-3, HS-LS3-2, HS-LS3-3, HS-LS1-8. (6 weeks) Saving the mountain Lion Anchoring phenomena. Mountain Lion populations <a href="#">Saving the Mountain Lion   New Visions - Science</a>	DNA
Week 17	1/20-1/24 (OFF 1/20)	Benchmark 2. 1/23. Sexual Reproduction	<b>Flower dissection/time for mitosis</b>
Week 18	1/27-1/31 (OFF 1/29)	Sexual Reproduction.	<b>Brine shrimp hatching success</b>
Week 19	2/3-2/7	Genetic variation (Bronx Zoo)	Relationships and biodiversity
Week 20	2/10-2/14	Engineering gene flow/unit closing	Gel electrophoresis
Week 21	2/17-2/21	February Break	

# Grade 8 Pacing Guide

## [Course Map](#)

Week 22	2/24-2/28	HS-LS2-1, HS-LS1-5, HS-LS2-4, HS-LS2-3, HS-LS1-6. (6 weeks). Food for all. Anchoring phenomena. Neolithic Revolution. <a href="#">Food for All   New Visions - Science</a>	<b>Genetic engineering</b>
Week 23	3/3-3/7	The superfood that changed the world.	
Week 24	3/10-3/14	Infectious Agent or Insufficient Diet.	<b>Human population growth</b>
Week 25	3/17-3/21	Food for Plants.	<b>Greenhouse effect in a bottle</b>
Week 26	3/24-3/28	Benchmark 3- 3/26. Unit closing	
Week 27	3/31-4/4	HS-LS2-2, HS-LS2-5, HS-LS2-6, HS-LS2-7, HS-LS4-6. (6 weeks). Woolly Mammoth. Anchoring phenomena. Tuskless Elephants. <a href="#">Woolly Mammoth   New Visions - Science</a>	State Lab –3 For the Birds
Week 28	4/7-4/11	Coral Bleaching	Water testing field work
Week 29	4/14-4/18	Spring Break (NYSES LAT begins)	
Week 30	4/21-4/25	Kelp Forest	Bottle biology
Week 31	4/28-5/2	ELA Assessments	Acid precipitation
Week 32	5/5-5/9 (5/5 ½ day)	Passenger pigeon	<b>Deer predation or starvation</b>
Week 33	5/12-5/16	Unit closing	

# Grade 8 Pacing Guide

[Course Map](#)

Week 34	5/19-5/23 (5/23 2 <sup>nd</sup> snow day)	7th grade Math Assessments/Mock	
Week 35	5/26-5/30 (OFF 5/26)	Review	
Week 36	6/2-6/6	Review	
Week 37	6/10	Biology Regents	
Week 38			
Week 40			