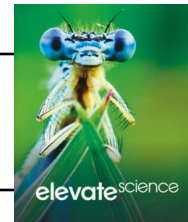


# 7th Grade Science Weekly Curriculum Map

2024-25



Week	Doman: DCI	Text Topics Standards	Content/Lessons	
1			Lab Safety Opening <a href="#">Lessons</a>	
2			Setup Science Notebooks (virtual or paper) Meaning of Science, Scientific Attitudes, Scientific Reasoning, Theories and Laws (text p. 420-431) Claims-Evidence-Reasoning Scientific Method Use of Data to support scientific reasoning	
3	Physical Science:  Energy (PS3)	Topic 1  7-PS3-1 7-PS3-2 7-PS3-5	Lesson 1: Energy, Motion, Force and Work <a href="#">Lab</a> : Which is more work, walking up a ramp or taking the stairs?	
4			Lesson 2: Kinetic Energy and Potential Energy <a href="#">KE/Mass Prediction Simulation</a> <a href="#">Lab: Mechanical Energy Graphing KE - SAVVAS</a>	
5			Lesson 3: Other forms of Energy <a href="#">Lab</a> : Does the size of the rubber band affect its elastic PE?	
6			Lesson 4: Energy change and conservation Consider the the 321 Liftoff Lab p. 48 <a href="#">Build a Chain Reaction Machine</a>	
7			Topic 2  7-PS1-1 7-PS1-2	Lesson 1: Describing and Classifying Matter <a href="#">What's in Air</a> - Graphing Worksheet with passage
8				Lesson 2: Measuring Matter <a href="#">Lab</a> : Station rotation in which students practice measurement.
9	Catch Up and Review Benchmark Test for Q1			
10	Physical Science:  Matter and its Interactions (PS1)	Topic 3  7-PS1-2 7-PS1-3 7-PS1-5 7-PS1-6	Lesson 1: Mixtures and Solutions	
11			Lesson 2: Chemical Changes	
12			Lesson 3: Modeling Chemical Reactions <a href="#">Lab</a> : Design and test experiment with variables and controls using vinegar and baking soda?	
13			Start growing some plants. <a href="#">Mrs. Parker</a> has seeds, soil, pots, etc. Have students simulate <a href="#">historic photosynthesis experiments</a>	
14	Form Molecules to Organisms  Cellular Processes (LS1)	Topic 4  7-LS1-6 7-LS1-7 7-LS2-3	Lesson 1: Photosynthesis* <a href="#">Lab</a> : Investigating Photosynthesis	
15			Lesson 2: Cellular Respiration* Demonstrate Lab p. 174, PetSmart may give you tiny snails.	
16			Fermentation p. 167 <a href="#">Lab</a>	
17			Catch Up and Review	
18			Benchmark Test for Q2	

\*Assessment does not include details of the chemical reactions for photosynthesis or respiration.

-This means that we will not teach the details of electron transport chain, Krebs Cycle, etc. We will focus on the formulas and the rearrangement of atoms. ~KMassey, 2022

Week	Doman: DCI	Text Topics Standards	Content/Lessons
19	Ecosystems: Interactions, Energy and Dynamics (LS2)	Topic 5 7-LS2-1 7-LS2-3	Lesson 1: Living Things and the Environment
20			Lesson 2: Energy Flow in Ecosystems
21			Lesson 3: Cycles in Matter <a href="#">Every Breath You Take</a> - SAVVAS
22			Review, Labs
23		Topic 6 7-LS2-1 7-LS2-2 7-LS2-4 7-LS2-5	Lesson 1: Interactions in Ecosystems
24			Lesson 2: Dynamic and Resilient Ecosystems <a href="#">Chesapeake Bay Ecosystem Crisis</a> - SAVVAS
25			Lesson 3: Biodiversity <a href="#">Human Impact on Biodiversity</a> - SAVVAS
26			Lesson 4: Ecosystem Services <a href="#">Preventing Soil Erosion</a> - <a href="#">Worksheet</a> - SAVVAS
27			Review Benchmark for Q3
28			Earth & Human Activity (ESS2)
29	Lesson 3: Mineral Resources Lesson 4: Water Resources Lab: <a href="#">Power of Wind</a> (Build a wind turbine) - SAVVAS		
30	Lesson 1: Population Growth and Resource Consumption		
31	Topic 8 7-ESS3-4	Lesson 2: Air Pollution Lesson 4: Water Pollution Reading Passage: <a href="#">Keeping Water Clean</a> - SAVVAS Interactivity: <a href="#">Capturing Rainwater</a> - <a href="#">Worksheet</a> - SAVVAS	
32	Topic 9 7-ESS3-3 7-ESS3-5	Spring Break - April 21-25	
33		Lesson 1: Climate Factors? Lab: <a href="#">How Latitude Affects Climate</a> - SAVVAS Lesson 2: Climate Change	
34		Lesson 3: Effects of a Changing climate Worksheet with graphs - <a href="#">Classifying Climate</a> - SAVVAS	
35		Research project, Review	
36		Final Assessment	