

# 7th Grade Science Virtual Learning\*

\*The calendar below serves as a suggested timeline for 7th grade science for 2020-2021, but can be modified as necessary to meet the individual needs of each teacher's classroom, schedule and full virtual vs. hybrid learning model.

Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday
					1.
	3.	4.	5.	6.	7.
	10.	11.	12.	13.	14.
	17.	18.	19.	20.	21.
<b>Week 1 - Welcome back!</b>	24. Building relationships	25. Building relationships	26. Building relationships	27. Building relationships	28. Building relationships
<b><u>Week 2 - Unit 1, Lesson 1</u></b> (MS-LS1-1)	31. Engage: Is a Seed Alive shared Google Doc				

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September					
Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday
<u>Week 2 (cont.) - Unit 1, Lesson 1</u> (MS-LS1-1)		1. Explore: Living and Non-living things	2. Explore: Science Talk Living and Non-living things & follow-up questions with Google form	3. Explore: Virtual Lab	4. Explore: Virtual lab questions and discussion
<u>Week 3 - Unit 1, Lesson 1</u> (MS-LS1-1)	7. Labor Day	8. Explore: Add to shared document & class discussion	9 Explain: Slides presentation and notes	10. Explain: IR pages & questions.	11. Explain: Review questions and class discussion
<u>Week 4 - Unit 1, Lesson 1</u> (MS-LS1-2)	14. Elaborate: Characteristics of life videos & notes	15. Elaborate: Small group discussions	16. Evaluate: Are viruses alive?	17. Evaluate: CER	18. Evaluate: CER
<u>Week 5 - Unit 1, Lesson 2</u> (MS-LS1-2)	21. Engage: Google slides and Padlets	22. Explore: Cell model exploration & Bridge Map	23. Explore: Small group work- Organelle stations	24. Explain: TAR, IR pages &/or Slides presentation.	25. Explain: Virtual organelle analogies

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<u>Week 6 - Unit 1, Lesson 2</u> (MS-LS1-2)	28. Explain: Virtual organelle analogies	29. Explain: Virtual organelle analogies	30. Explain: Virtual organelle analogies		
October					
Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday
<u>Week 6 (cont.) - Unit 1, Lesson 2</u> (MS-LS1-2)				1. Elaborate: Cell City	2. Evaluate: Cell City models and protein paragraphs
<u>Week 7 - Unit 1, Lesson 3</u> (MS-LS1-3 & MS-LS1-8)	5. Engage #1: Presentation and questioning	6. Engage #1: CFU - Interacting subsystems	7. Explore #1: Small group - Interactive body tour	8. Explore #1: Small group - Interactive body tour	9. Explore #2: Small group work - Body Systems
<u>Week 8 - Unit 1, Lesson 3</u> (MS-LS1-3 & MS-LS1-8)	12. Explore #2: Small group work - Body Systems	13. Explore #2: Google forms CFA	14. Explain #1: Presentation and note-taking	15. Explain #1: Go over Body Systems explore	16. Elaborate #1: Organ/tissue research
<u>Week 9 - Unit 1, Lesson 3</u> (MS-LS1-3 & MS-LS1-8)	19. Elaborate #1: Organ/tissue research	20. Elaborate #1: Organ/tissue research	21. Elaborate #1: Organ/tissue research	22. Elaborate #1: Organ/tissue research	23. Evaluate #1: Student arguments

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<b><u>Week 10 - Unit 1, Lesson 3 (MS-LS1-3 &amp; MS-LS1-8)</u></b>	26. Engage #2: Science Talk	27. Explore #3: Articles & Thinking Map	28. Explain #2: Achieve 3000	29. Elaborate #2: Reaction Time lab	30. Evaluate #2: Body Systems Quiz
<b>November</b>					
<b>Standard Focus</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b><u>Week 11 - Unit 2, Lesson 1 (MS-LS1-4) Animal &amp; Plant Structures for Reproduction</u></b>	2. Engage: Phenomenon video and discussion	3. Explore: Virtual flower dissection demo	4 Explore: Zingy Learning lesson, quiz & short answer activity	5. Explore: Zingy Learning lesson, quiz & short answer activity	6. Explain: Reading passage with pre- & post- vocabulary sort
<b><u>Week 12 - Unit 2 Lesson 1 (MS-LS1-4) Animal &amp; Plant Structures for Reproduction</u></b>	9. Explain: BrainPOP &/or Mystery Science	10. Elaborate: Achieve 3000 Lesson	11. Veteran's Day holiday - No School	12. Evaluate: Create-a-flower activity	13. Evaluate: Create-a-flower activity
<b><u>Week 13 - Unit 2, Lesson 2 (MS-LS1-5) Environmental &amp; Genetic Factors</u></b>	16. Engage: Notice & Wonder, poster, &/or Exit Ticket	17. Explore: Discussion & Plant Growth interactive	18. Explain: Poster creation from Explore	19. Explain: Achieve 3000, BrainPOP, Zingy Learning	20. Explain: Achieve 3000, BrainPOP, Zingy Learning

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<u>Thanksgiving Week</u> <u>No School</u>	23.	24.	25.	26.	27.
<u>Week 14 - Unit 2,</u> <u>Lesson 2 (MS-LS1-5)</u> <u>Environmental &amp;</u> <u>Genetic Factors</u>	30. Explain: Achieve 3000, BrainPOP, Zingy Learning				
December					
Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday
<u>Week 14 (cont.) - Unit</u> <u>2, Lesson 2 (MS-LS1-5)</u> <u>Environmental &amp;</u> <u>Genetic Factors</u>		1. Elaborate: Poster revisions and presentation creation	2. Elaborate: Poster revisions and presentation creation	3. Elaborate: Poster revisions and presentation creation	4. Evaluate: Poster presentations & virtual gallery walk
<u>Week 15 - Unit 2,</u> <u>Lesson 3 (MS-LS3-1)</u> <u>Mutations</u>	7. Engage: Notice & Wonder discussion	8. Explore: Genetic Mutation Lab	9. Explain: Interactive reader/Google Slides	10. Explain: BrainPOP & Zingy Learning	11. Explain: Zingy Learning

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<u>Week 16 Unit 2, Lesson 3 (MS-LS3-1)</u> <u>Mutations</u>	14. Explain: Zingy Learning or Achieve 3000	15. Explain: Zingy Learning or Achieve 3000	16. Elaborate: BrainPOP and/or poster creation	17. Elaborate: Poster creation	18. Evaluate: Whole class discussion and/or Google Form
<u>Winter Break</u> <u>No School</u>	21.	22.	23.	24.	25.
<u>Winter Break</u> <u>No School</u>	28.	29.	30.	31.	
January					
Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday
<u>Winter Break</u> <u>No School</u>					1.

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<b><u>Week 17, Unit 2,</u></b> <b><u>Lesson 4 (MS-LS3-2)</u></b> <b><u>Sexual/Asexual</u></b> <b><u>reproduction</u></b>	4. Engage: Notice & Wonder discussion	5. Explore: Star & Circle village explorations	6. Explain: Punnett Square practice	7. Explain: Videos, Zingy, BrainPOP, Achieve 3000	8. Explain: Videos, Zingy, BrainPOP, Achieve 300
<b><u>Week 18, Unit 2,</u></b> <b><u>Lesson 4 (MS-LS3-2)</u></b> <b><u>Sexual/Asexual</u></b> <b><u>reproduction</u></b>	11. Explain: Videos, Zingy, BrainPOP, Achieve 300	12. Elaborate: Asexual reproduction video & Bubble Map	13. Evaluate: Google Slides/Google Drawing poster	14. Evaluate: Google Slides/Google Drawing poster	15. Evaluate: Google Slides/Google Drawing poster
<b><u>Week 19, Unit 2,</u></b> <b><u>Lesson 5 (MS-LS4-5)</u></b> <b><u>Genetic Modification</u></b>	18. Engage: Notice & Wonder phenomenon discussion	19. Explore: Website explorations & T-charts	20. Explore: Website explorations & T-charts	21. Explain: Discussion of exploration findings & asynchronous options	22. Explain: BrainPOP, Zingy Learning &/or Achieve3000
<b><u>Week 20, Unit 2,</u></b> <b><u>Lesson 5 (MS-LS4-5)</u></b> <b><u>Genetic Modification</u></b>	25. Explain: BrainPOP, Zingy Learning &/or	26. Elaborate: Creation of student projects	27. Elaborate: Creation of student projects	28. Elaborate: Creation of student projects	29. Evaluate: Student presentations

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	Achieve3000				
February					
Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday
<u>Week 21, Unit 3, lesson 1 (MS-LS1-6 &amp; MS-LS2-3) Matter &amp; Energy in Ecosystems</u>	1. Engage: Notice & Wonder discussion	2. Explore: Collaborative food chain activity	3. Explain: Direct instruction & Interactive reader	4. Explain: Direct instruction & Interactive reader	5. Explain: Direct instruction & Interactive reader
<u>Week 22, Unit 3, lesson 1 (MS-LS1-6 &amp; MS-LS2-3) Matter &amp; Energy in Ecosystems</u>	8. No School	9. Explain: BrainPOP, Zingy Learning, Achieve3000	10. Explain: BrainPOP, Zingy Learning, Achieve3000	11. Explain: BrainPOP, Zingy Learning, Achieve3000	12. Explain: BrainPOP, Zingy Learning, Achieve3000
<u>Week 23, Unit 3, lesson 1 (MS-LS1-6 &amp; MS-LS2-3) Matter &amp; Energy in Ecosystems</u>	15. No School	16. Elaborate: Creation of Ecosystem models	17. Elaborate: Creation of Ecosystem models	18. Elaborate: Creation of Ecosystem models	19. Evaluate: Finish & present models



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<b><u>Week 24, Unit 3, Lesson 2 (MS-LS2-1 &amp; MS-LS2-4) Resources &amp; Populations in Ecosystems</u></b>	22. Engage: Notice & Wonder with Jamboard	23. Explore: Analysis of plant experiment (Note: plants need to be planted 2 weeks prior)	24. Explain: Interactive reader & website exploration	25. Explain: Interactive reader & website exploration	26. Explain: Zingy Learning, BrainPOP &/or Achieve 3000.
<b>March</b>					
<b>Standard Focus</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
<b><u>Week 25, Unit 3, Lesson 2 (MS-LS2-1 &amp; MS-LS2-4) Resources &amp; Populations in Ecosystems</u></b>	1. Explain: Zingy Learning, BrainPOP &/or Achieve 3000.	2. Explain: Zingy Learning, BrainPOP &/or Achieve 3000.	3. Explain: Zingy Learning, BrainPOP &/or Achieve 3000.	4. Explain: Zingy Learning, BrainPOP &/or Achieve 3000.	5. Elaborate: Research & creation of keystone species posters
<b><u>Week 26, Unit 3, Lesson 2 (MS-LS2-1 &amp; MS-LS2-4) Resources &amp; Populations in Ecosystems</u></b>	8. Elaborate: Research & creation of keystone species posters	9. Elaborate: Research & creation of keystone species posters	10. Elaborate: Research & creation of keystone species posters	11. Elaborate: Research & creation of keystone species posters	12. Evaluate: Gallery walk and evaluation of posters
<b><u>Week 27, Unit 3, Lesson 3 (MS-LS2-2) Organism</u></b>	15. Engage: Phenomenon	16. Explore: Organism	17. Explore: Organism	18. Explain: Direct Instruction &	19. Explain: BrainPOP, Zingy

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<u>Interactions</u>	discussion w/Jamboard	interactions station activity	interactions station activity	guess the interaction activity	Learning, Achieve3000
<u>Week 28, Unit 3, Lesson 3 (MS-LS2-2) Organism Interactions</u>	22. Explain: BrainPOP, Zingy Learning, Achieve3000	23. Explain: BrainPOP, Zingy Learning, Achieve3000	24. Elaborate: Creation of Organism interactions projects	25. Elaborate: Creation of Organism interactions projects	26. Evaluate: Finalize and share projects
<u>No School - Spring Break</u>	29.	30.	31.		
April					
Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday
<u>No School - Spring Break</u>				1.	2.
<u>Week 29 - Unit 3,</u>	5. Holiday	6.	7.	8.	9.

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<u>Lesson 4 (MS-LS2-5)</u> <u>Maintaining Biodiversity</u>		Engage: Class discussion	Explore: Biodiversity virtual station activity	Explain: Direct Instruction, reading and/or video	Explain: BrainPOP, Zingy Learning, Achieve3000
<u>Week 30 - Unit 3, Lesson 4 (MS-LS2-5)</u> <u>Maintaining Biodiversity</u>	12. Explain: BrainPOP, Zingy Learning, Achieve3000	13. Explain: BrainPOP, Zingy Learning, Achieve3000	14. Elaborate: Group/individual solution discussions	15. Elaborate: Group/individual solution discussions	16. Evaluate: Evaluation of solutions
<u>Week 31 - Unit 4, Lesson 1 (MS-LS4-1 &amp; MS-LS4-2) The Fossil Record</u>	19. Engage: Notice & wonder w/ video clip & Jamboard	20. Explore: Learning from the Fossil Record activity	21. Explain: Direct instruction, video & interactive reader	22. Explain: Interactive reader, websites, BrainPOP, Zingy learning, Achieve3000	23. Explain: BrainPOP, Zingy learning, Achieve3000
<u>Week 32 - Unit 4, Lesson 1 (MS-LS4-1 &amp; MS-LS4-2) The Fossil Record</u>	26. Explain: BrainPOP, Zingy learning, Achieve3000	27. Elaborate: Extinct animal research & poster creation	28. Elaborate: Extinct animal research & poster creation	29. Elaborate: Extinct animal research & poster creation	30. Evaluate: Google Form or FlipGrid
May					
Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday

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<u>Week 33 - Unit 4, Lesson 2 (MS-LS4-3) Embryo Evidence</u>	3. Engage: Circle Map activity	4. Explore: Embryological Development activity	5. Explain: Informational text close read	6. Explain: Zingy Learning &/or Achieve3000	7. Explain: Zingy Learning &/or Achieve3000
<u>Week 34 - Unit 4, Lesson 2 (MS-LS4-3) Embryo Evidence</u>	10. Elaborate: Argument Driven Inquiry activity	11. Elaborate: Argument Driven Inquiry activity	12. Elaborate: Argument Driven Inquiry activity	13. Evaluate: Presentations & Debates	14. Evaluate: Presentations & Debates
<u>Week 35 - Unit 4, Lesson 3 (MS-LS4-4 &amp; MS-LS4-6) Natural Selection</u>	17. Engage: Notice & Wonder & Thinking Maps	18. Engage: Notice & Wonder & Thinking Maps	19. Explore: Bird Beak activity	20. Explain: BrainPOP, Zingy Learning, Info text &/or Achieve 3000	21. Explain: BrainPOP, Zingy Learning, Info text &/or Achieve 3000
<u>Week 36 - Unit 4, Lesson 3 (MS-LS4-4 &amp; MS-LS4-6) Natural Selection</u>	24. Explain: BrainPOP, Zingy Learning, Info text &/or Achieve 3000	25. Explain: BrainPOP, Zingy Learning, Info text &/or Achieve 3000	26. Elaborate: Natural Selection Activity	27. Elaborate: Natural Selection Activity	28. Elaborate: Natural Selection Activity
<u>Week 37 - Unit 4, Lesson 3 (MS-LS4-4 &amp; MS-LS4-6) Natural Selection</u>	31. No School - Memorial Day				

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<u>June</u>					
Standard Focus	Monday	Tuesday	Wednesday	Thursday	Friday
<u>Week 37 (cont.) - Unit 4, Lesson 3 (MS-LS4-4 &amp; MS-LS4-6) Natural Selection</u>		1. Elaborate: Natural Selection Activity	2. Elaborate: Complete presentations	3. Evaluate: Complete presentations	4. Evaluate: Gallery Walk of presentations