

## WEST DEPTFORD SCHOOL DISTRICT

<b>Content Area: Science</b>			
<b>Course Title: Body Systems</b>		<b>Grade Level: 7</b>	
		<b>Weeks Spent</b>	
<b>Unit 1:</b>		<b>8 weeks</b>	
<ul style="list-style-type: none"> <li>● Activity 1 - The Pellagra Story</li> <li>● Activity 2 - Parts of a Whole</li> <li>● Activity 3 - What's Happening Inside</li> <li>● Activity 4 - Digestion: An Absorbing Tale</li> <li>● Activity 5 - Food Breakdown</li> <li>● Activity 6 - Observing Organisms</li> <li>● Activity 7 - Can You Feel the Difference?</li> <li>● Activity 8 - Feeling the Nerve</li> <li>● Activity 9 - Heartily Fit</li> <li>● Activity 10 - Gas Exchange</li> <li>● Activity 11 - Interacting Systems</li> <li>● Activity 13 - Testing Medicines: A Clinical Trial</li> <li>● Activity 14 - Evaluating Clinical Trials</li> </ul>			
<b>Unit 2: From Cells to Organisms</b>		<b>8 weeks</b>	
<ul style="list-style-type: none"> <li>● Activity 1 - Disease Outbreak</li> <li>● Activity 2 - An Invisible Organism</li> <li>● Activity 3- Evidence of Microscopic Organisms</li> <li>● Activity 4 - The History of Cell Theory</li> <li>● Activity 5 - Cells Alive!</li> <li>● Activity 6 - Parts of a Cell</li> <li>● Activity 7- Investigating the Cell Membrane</li> <li>● Activity 8 - Modeling Cell Structure and Function</li> <li>● Activity 9 - Observing Multicellular Organisms</li> <li>● Activity 10 - Cells, Tissues, and Organs</li> <li>● Activity 11 - Energy and Matter in Cells</li> <li>● Activity 12 -The Cells of Plants</li> <li>● Activity 13 - A Plant's Source of Energy</li> <li>● Activity 14 - Fighting Extinction</li> <li>● Activity 15 - Disease Detectives</li> </ul>			

<b>Unit 3: Reproduction</b>	<b>8 weeks</b>		
<ul style="list-style-type: none"> <li>● Activity 1 -Joe’s Situation</li> <li>● Activity 2 - Creature Features</li> <li>● Activity 3 - Reproduction</li> <li>● Activity 4 - Gene Combo</li> <li>● Activity 5 - Gene Squares</li> <li>● Activity 6 - Mendel, First Geneticist</li> <li>● Activity 7 - Do Genes Determine Everything?</li> <li>● Activity 8 -ShoMe the Genes</li> <li>● Activity 9 -Breeding Critters- More Traits</li> <li>● Activity 10 - Animal Behavior</li> <li>● Activity 11 - Plant - Animal Interactions</li> <li>● Activity 12 - How Do Genes Produce Traits?</li> <li>● Activity 13 - Fault in the Genes</li> <li>● Activity 14 - Advising Joe</li> </ul>			
<b>Unit 4:Chemistry of Materials</b>	<b>8 weeks</b>		
<ul style="list-style-type: none"> <li>● Activity 1 - Exploring Materials</li> <li>● Activity 2 - Investigating Elements</li> <li>● Activity 3 - Physical and Chemical Properties of Materials</li> <li>● Activity 4 - Determining Density</li> <li>● Activity 5 - Evaluating Properties of Materials</li> <li>● Activity 6 - Modeling Molecules</li> <li>● Activity 7 - Structure and Properties of Materials</li> <li>● Activity 8 - What’s in a State?</li> <li>● Activity 9 - Energy and Particle Movement</li> <li>● Activity 10 - Modeling State Changes</li> <li>● Activity 11 -Making Polymers</li> <li>● Activity 13 - The Impact of Plastics on Society</li> </ul>			
<b>Unit 5:Geological Processes</b>	<b>4 weeks</b>		
<ul style="list-style-type: none"> <li>● Activity 1 - Storing Nuclear Waste</li> <li>● Activity 2 - Investigating Groundwater</li> <li>● Activity 4- Natural Hazards Caused by Earthquakes and Volcanoes</li> <li>● Activity 5 - Modeling Volcanic Eruptions</li> <li>● Activity 6 - Mapping the Locations of Earthquakes and Volcanoes</li> </ul>			

	<ul style="list-style-type: none"> <li>● Activity 7 - Observing Earth's Moving Surface</li> <li>● Activity 8 - Beneath Earth's Surface</li> <li>● Activity 10 - Plate Boundaries</li> <li>● Activity 11 - Understanding Plate Boundaries</li> <li>● Activity 12 - The Continental Puzzle</li> <li>● Activity 13- The Theory of Plate Tectonics</li> </ul>				
	<p><i>Date Created: August 2022</i>  <i>Revised: August 2023</i></p>	<p><i>Board Approved on: August 2022</i>  <i>Revised Board Approved: August 2023</i></p>			

**WEST DEPTFORD SCHOOL DISTRICT**  
**Seventh Grade Science Pacing Guide**  
**Unit: Body Systems**

Activity Number	Title	DATES	Number of Days
1	The Pellagra Story	9/9 & 9/12	2
2	Parts of A Whole	9/13-9/14	2
3	What's Happening Inside?	9/15-9/16	2
4	Digestion: An Absorbing Tale	9/19-9/21	2
5	Food Breakdown	9/22	1
	Digestion Review	9/23 & 9/26	2
	Digestion Quiz	9/27	1
6	Observing Organisms	9/28	1
7	Can You Feel the Difference?	9/29-9/30, 10/3	3
8	Finding the Nerve	10/4	1
9	Heartily Fit	10/5-10/6	2
10	Gas Exchange	10/7 & 10/11	2
	Tobacco Web Quest/Review for Quiz/Quiz	10/12-10/14	3

11	Interacting Systems	10/17-10/18	2
	Heart Problems	10/19	1
	Circulatory Project/Quiz Review/ Quiz	10/20-10/21,10/24-10/25	4
13	Testing Medicines: A Clinical Trial	10/26	1
14	Evaluating Clinical Trials	10/27-10/28	2
	Unit Review	10/31-11/2	3
	Unit Test	11/3	1

**WEST DEPTFORD SCHOOL DISTRICT**  
**Seventh Grade Science Pacing Guide**  
**Unit: From Cells to Organisms**

<b>Activity Number</b>	<b>Title</b>	<b>Dates</b>	<b>Number of Days</b>
1	Disease Outbreak	11/4 & 11/7	2
2	An Invisible Organism	11/8	1
3	Evidence of Microscopic Organisms	11/14-11/16	3
4	The History of Cell Theory	11/17-11/18	2
6	Parts of a Cell	11/21-11/22	2
	Vocabulary Packet & Microscope Quiz	11/23	1
7	Investigating the Cell Membrane	11/28-11/29	2
8	<i>Modeling Cell Structure and Function</i>	11/30	1
9	Observing Multicellular Organisms	12/1-12/2	2
10	<i>Cells, Tissues, and Organs</i>	12/5	1
	Cell Label and Vocabulary Quiz	12/6	1
	Cell Webquest	12/6-12/7	2

11	Energy and Matter in Cells	12/8	1
12	The Cells of Plants	12/9& 12/12	2
	Microbe Zoo Webquest	12/13-12/14	2
14	Fighting Disease	12/15	1
	An Ounce of Prevention	12/16	1
15	Disease Detectives	12/19-12/20	2
	Maracondo Fever	12/21-12/23	3
	Unit Test Review	1/3-1/5	3
	Unit Test	1/6	1

**WEST DEPTFORD SCHOOL DISTRICT**  
**Seventh Grade Science Pacing Guide**  
**Unit: Reproduction**

<b>Activity Number</b>	<b>Title</b>	<b>Dates</b>	<b>Number of Days</b>
	Investigating Human Traits	1/9	1
1	Joe's Situation	1/10	1
2	Creature Features	1/11	1
3	Reproduction	1/12 & 1/17	2
4	<i>Gene Combo</i>	1/18	1
5	Gene Squares	1/19	1
	Biography African American Scientist	1/20	1

6	Mendel, First Geneticist	1/20 & 1/23	2
	Punnett Square Practice	1/24-1/26	3
	Punnett Square Practice/Vocabulary Quiz	1/27	1
	Punnett Square Quiz	1/30	1
7	Part one-Do Genes Determine Everything?	1/31	1
8	<i>Show Me the Genes</i>	2/1-2/2	2
	Genetics "Ology" Web Quest	2/3	1
9	Breeding Critters- More Traits	2/6	1
10	Animal Behavior	2/7-2/8	2
11	Plant Animal Interactions	2/9-2/10	2
12	How Do Genes Produce Traits?	2/13	1
14	Advising Joe	2/14-2/15	2
7	Part Two-Do Genes Determine Everything?	2/16	1
	Unit Review	2/21-2/23	3
	Unit Test	2/24	1
	Genetics Project Introduction	2/27 & 3/3	2
	Performance Assessment SGO Review & Assessment	2/28-3/2	3

**WEST DEPTFORD SCHOOL DISTRICT**  
**Seventh Grade Science Pacing Guide**  
**Unit: Chemistry Of Materials**

<b>Activity Number</b>	<b>Title</b>	<b>Dates</b>	<b>Number of Days</b>
1	Exploring Materials	3/6	1
2	Investigating Elements	3/7	1
3	Physical and Chemical Properties of Materials	3/8--3/10	3
4	Determining Density	3/13-3/14	2
5	Evaluating Properties of Materials	3/15-3/16	2
6	Modeling Molecules	3/20	1
7	Structures and Properties of Materials	3/21	1
8	What's in a State	3/22-3/23	2
9	Energy and Particle Movement	3/24 & 3/27	2
10	Modeling State Changes	3/28-3/29	2
11	Making Polymers	3/30-3/31	2
13	The Impact of Plastics in Society	4/3-4/5	3
	Chemistry Vocabulary Quiz	4/6	1
	Chemistry Unit Review	4/17-4/19	3
	Unit Test	4/20	1
	Chemistry Choice Board Project	4/21, 4/24-4/25	3

**WEST DEPTFORD SCHOOL DISTRICT**  
**Seventh Grade Science Pacing Guide**  
**Unit:Geological Processes**

<b>Day</b>	<b>Title</b>	<b>Dates</b>	<b>Number of Days</b>
1	Storing Nuclear Waste	4/26-4/27	2
2	Investigating Groundwater	4/28-5/1	2
3	Modeling Landslides	5/2	1
4	Natural Hazards Caused by Earthquakes and Volcanoes	5/3	1
5	Modeling Volcanic Eruptions	5/4-5/5	2
6	Mapping Locations of Earthquakes and Volcanoes	5/8	1
7	Activity 7 - Observing Earth's Moving Surface  ● ●	5/9-5/10	2
8	Beneath Earth's Surface	5/11-5/12	2
10	Plate Boundaries	5/18-5/19	2
11	Understanding Plate Boundaries	5/22-5/23	2
12	The Continental Puzzle	5/24	1
13	The Theory of Plate Tectonics	5/25-5/26	2
	Vocabulary Quiz	5/30	1
	Final/End of Course Review	5/31-6/1	2
	Final Assessment	6/2	1
	Unit Review	6/5-6/6	2
	Unit Test	6/8	1

**WEST DEPTFORD SCHOOL DISTRICT**  
**Seventh Grade Science Lesson Plan Format**  
{45 Minutes of Instruction}

**ENGAGE**

10 minutes

- Opening activity - access prior learning / simulate interest/ generate question

**EXPLORE**

25 minutes

- Introduce lesson objective and expectations to students
- Teacher demonstration/modeling
- Student practice

**EVALUATE**

10 minutes

- Formative monitoring
- Summative assessment