

Middle School Microbiology Unit Scope and Sequence Variations

Teaching Lessons over 5 days for 1 ½-2 hours a day:

DAY	LESSONS
1	Lesson 1: The Microbes in You: An Introduction to Microbiology Lesson 5: Microbes All Around Us—Start the Plating activity
2	Lesson 3: Microbes in our Food (Complete the yogurt making part) Lesson 5: Observe bacteria cultures
3	Lesson 3: Observe Yogurt and complete lesson Lesson 4: Microbes in Our Water Lesson 5: Observe bacteria cultures
4	Lesson 2: Microbes in History Lesson 5: Observe bacteria cultures
5	Lesson 6: DNA Extraction Activity Lesson 5: Complete last observation of bacteria cultures and the rest of the lesson

Teaching Lessons over 2 days: 3-5 hours a day:

DAY	LESSONS
1	Lesson 1: The Microbes in You: An Introduction to Microbiology Lesson 3: Microbes in our Food (Complete the yogurt making part) Lesson 4: Microbes in our Water Lesson 2: Microbes In History (start)
2	Lesson 3: Complete “Most Wanted” posters if time is needed Lesson 2: Observe yogurt and complete lesson Lesson 5: Microbes All Around Us: Have Petri Dishes already prepared for participants to observe since time is not permitted to let bacteria to grow Lesson 6: DNA Extraction Activity

Teaching all lessons in 3 days: 2-3 hours a day:

DAY	LESSONS
1	Lesson 1: The Microbes in You: An Introduction to Microbiology Lesson 5: Microbes All Around Us: Allow participants to create bacteria cultures but also have some prepared if there is not enough time for growth Lesson 4: Microbes in Our Water
2	Lesson 5: Observe bacteria cultures and do activities Lesson 3: Microbes in Our Food: (Complete the Yogurt Making Part) Lesson 2: Microbes in History
3	Lesson 2: Microbes in History –finish if needed Lesson 3: Observe yogurt and complete activities Lesson 6: DNA Extraction Activity Lesson 5: Observe bacteria cultures and complete all activities with lesson

Middle School Microbiology Unit Scope and Sequence Variations Continued

Teaching all lessons in 1 day: 6-7 hours a day:

DAY	LESSON SEQUENCE
1	<p>**If curriculum is only taught in one day, these are the top 4 suggested lessons to cover:</p> <p>Lesson 3: Microbes in our Food: Complete yogurt making—should be ready by end of day but have some prepared</p> <p>Lesson 1: The Microbes in You: An Introduction to Microbiology</p> <p>Lesson 4: Microbes in Water</p> <p>Lesson 6: DNA Extraction Activity</p> <p>Lesson 3: Check Yogurt to see if it has formed and complete the conclusion part of lesson</p>

