

Magical Milk Experiment

TIME	TASK	DESCRIPTION	NEEDS
5 MIN	INTRODUCTION	Teacher Instruction: The teacher will explain the overall task and introduce the students to spectroscopy.	<ul style="list-style-type: none"> • Have slides with types of electric motors.
10 min	Group Read	Read the reading aloud to talk about the big ideas.	
10 MIN	VIDEO	Video Review: Students will watch a video explaining how the <ol style="list-style-type: none"> 1. What causes the color movement? 2. What do the words hydrophobic and hydrophilic mean? 3. What does the fat in milk have to do with this movement? 4. What would happen if this happened in water? 	<ul style="list-style-type: none"> • Copies of the lab plan • Have instructional video cued and embedded in the powerpoint.
5 MIN	VIDEO ANALYSIS	Students will write their answers down in their lab books	<ul style="list-style-type: none"> • have questions on the slide
10 MIN	LAB REVIEW	Student and Teacher team will read the lab aloud in preparation.	<ul style="list-style-type: none"> • have questions and task on the slide
20 MIN	LAB COMPLETION	Students will complete the lab	<ul style="list-style-type: none"> • have questions and task on the slide
5 MIN	SMALL GROUP PRESENTATION	Students will present their working motors and explain how they work.	<ul style="list-style-type: none"> • have questions and task on the slide
10 MIN	VIDEO EXPLANATION	All the students in the group will record a video of themselves explaining how the motors work.	
10 MIN	CLEAN UP		