

Grade 6 – Level 4

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Mr. Correia **Earth and Space Sciences, Environmental Science** **ZOOM**

Ms. Costa **Physical Science, Technology & Engineering** **GOOGLE CLASSROOM**

2020 Schedule Homeroom: **Mr. John Correia** **Miss Ellen Costa**

	HOMEROOM – J. CORREIA	HOMEROOM – E. COSTA
Week 1 7/6 6/10	Mr. Correia Solar System Big Bang Theory	Ms. Costa Oil Spills Oil Cleanup
Week 2 7/13, 7/17	Mr. Correia Moon Phases	Ms. Costa Water Filtration Clean Water
Week 3 7/20 7/24	Mr. Correia Environmental Police	Ms. Costa Alternative Energy
Week 4 7/21 7/31	Ms. Costa Oil Spills Oil Cleanup	Mr. Correia Environmental Police
Week 5 8/3 8/7	Ms. Costa Water Filtration Clean Water	Mr. Correia Solar System Big Bang Theory
Week 6 8/10 8/14	Ms. Costa Alternative Energy	Mr. Correia Moon Phases

LESSON 1 **Earth and Space**

Sciences **“The Formation of the Solar System”**

Students will view a Power Point Presentation, which will promote interactive discussion of the Big Bang Theory. Additionally, students will view and discuss how the earth is part of a system referred to as a “Solar System” that includes a sun (sol), planets, and many moons.

Assignment 1: Create a sundial from a paper plate

Assignment 2: Design and create a “Solar System in a Cereal Box. Students will present their Solar System in a box and discuss its content and construction.

CHALLENGE: How many words can a student make from the letters in – “Our Amazing Solar System?”

LESSON 2 **Earth and Space Science** **“Water Filtration and Clean Water “**

Utilizing a power point presentation, students will view, explain, and discuss the phases of the moon. Interactive discussion will include how the moon affects planet, Earth, and human beings.

Assignment: Create a three-dimensional model to indicate the positioning of the sun, planet Earth, and the moon determines moon phases

LESSON 3 **Environmental Science** **“Massachusetts Boating Safety Rules”**

The Massachusetts Environmental Police have been issuing Boating Licenses to Sea Lab students for over twenty year. Lt. John from the Massachusetts Environmental Police will be introducing, reviewing, and discussing Safe Boating rules with the Gra.de 6 – Level 4 Sea Lab students. This interactive experience is a precursor to the 52nd Part 2 Summer Session 2021. Students will participate with Lt. John in a mock boat inspection.

MATERIALS NEEDED: 1 straw, 1 paper plate, crayons or markers, scissors, empty cereal box, white paper or construction paper, tape, ruler, cardboard cereal box or any box, desk lamp or flashlight, string or yarn, large paper clips, and a 3 inch Styrofoam or rubber ball

Ms. Ellen Costa

I will be creating two Google Classroom platforms, one per homeroom, to post all information, assignments, and host meetings.

LESSON 1 **Physical Science** **“Oil Spills and Oil Cleanup “**

In our first virtual session, sixth grade students will “break the ice” and meet each other practicing engineering in its most simple form: cup stacking. After playing a quick memory game of cup stacking, students will be immersed in conversation about oil transportation, spills, and clean up strategies. Sixth graders will be exposed to a live simulation and given their first assignment which will challenge them to think about the containment of the non-renewable energy source of oil.

LESSON 2 **Physical Science** **“Water Filtration and Clean Water “**

Students will return to their second virtual meet with the outcome of Assignment #1. We will discuss the strategies, successes, and failures of oil containment. This will open a door to the discussion of the need for clean water globally. Sixth grade students will watch as I create a water filter using natural resources. This discussion will introduce the importance of considering alternative energy sources like wind, water, and solar.

LESSON 3 **Physical Science** **“Alternative Energy”**

For our final virtual lesson, students will demonstrate their hard work by showing and telling about the alternative energy source models. Students will walk away from this lesson with strategies for supporting their local environment. We will end the way we began with cup stacking and a preview of next summer’s curriculum.