**Grade 5 – Level 3**

**TEACHERS:** **Richard Huston** rhuston@newbedfordschools.org
**Daniel Viegas** dviegas@newbedfordschools.org

**Mr. Huston will be posting travel videos and students activities through an e-mail format.**

**Mr. Richard Huston "On the Road with Mr. Huston" Life Science, Earth & Space Sciences**

**Virtual Classroom Experiences**

Mr. Huston will be introducing Earth and Space Science, specifically geology, and Life Science, specifically indigenous flora and fauna, through a video format. He is creating travel videos to United States National Parks. Areas of travel will include, but not limited to, Yellow Stone National Park, Bryce Canyon National Park, Grand Canyon National Park, and Rocky Mountain National Park. Geology, environmental science, and indigenous plants and animals will be introduced.

Travel Videos investigating geological and environmental content will be posted through e-mails links, accompanied by assigned student learning activities.

**Mr. Huston will send links to all his students in order to access these exciting travel experiences**

**Lesson 1 Earth and Space Science "Layers of Time" Grand Canyon South Rim**

Students will discover Earth's geologic history by exploring the Grand Canyon's rock layers, formation, and ultimately realize how landscapes change over time.

**Lesson 2 Earth and Space Science "Predicting Old Faithful" Yellowstone National Park**

Students will discover how a geyser is formed. They will observe "Old Faithful" and predict its next eruption.

**Lesson 3 Life Science "To Eat or Be Eaten" Yellowstone National Park**

Students will become familiar, through observation, Yellowstone's ecosystem. A connected food web will demonstrate the transfer of life energy and activity through the connection of plants and animals in the unique environment of Yellowstone National park

**CHALLENGE**: Create a Venn diagram comparing one National Park's earth science/life science to New Bedford's earth science/life science.

**Mr. Daniel Viegas** **Topics: Life Science, Physical Science, Technology & Engineering**

**ZOOM SESSIONS** with **Mr. Daniel Viegas** are scheduled for **Tuesday at 9:00 AM : cohort 1 - July 7, 14, 21 and cohort 2 – July 28; August 4, 12, 2020**

**Platform to be used for Agenda, Material, and Zoom Links will be Google Classroom**

**Lesson 1** **Life Science** **"Virtual Lesson – Meet the Reptiles"** **ZOOM LESSON**

Mr. Viegas will introduce and guide Sea Lab students through a taped field study to meet specific reptiles native to Australia. This lesson will include many visuals, including a visit to a local shop which sells a variety of reptiles. This is a learning experience, which will encourage much discussion regarding the anatomy, environment, and behavior of reptiles. Mr. Viegas also plans to dispel "fictional information" regarding snakes. A special assignment will be forwarded to the students regarding reptile anatomy and adaptations comparisons

**Lesson 2** **Physical Science** **"Density and Polarity"** **ZOOM LESSON**

Mr. Viegas will discuss interactively, with students input, the difference between density and polarity. Participating in Break-out rooms, students will discuss their construction of a Lava Lamp and how the "bubbles" occurred. Observations will be shared. Mr. Viegas will discuss the "science" of the Lava Lamp Experiment. Interactive discussions will occur.

**CHALLENGE: Make a Density Column in a Glass Jar using safe, household liquids**

**Lesson 3** **Technology & Engineering** **"Bridge Building"** **ZOOM LESSON**

Students will have the opportunity to view the construction of different New England bridges. Students will focus specifically on the design and construction of a truss bridge. Students will participate in an inquiry cycle to design and test weight distribution on their own model bridge(s).

**Activity 1**: Design and Weight Distribution of a Student Constructed Bridge utilizing cardboard rolls and a sheet of paper. Weights will be pennies and quarters.

**Activity 2:** Utilizing information from the construction of Bridge 1, students will redesign a larger bridge, which will hold more weight. Materials to be used consist of sheets of paper, masking tape, cardboard. Weights will be books.