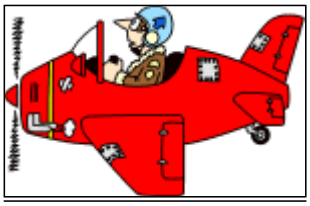
CHESSIE Schedule
Group 2A Strawberies & 2B Blueberries
Motion/Flight Unit



Resources Used for Motion/Flight Unit:
All About Aircraft and Flight by Peter Mellett & John Rostron
***Parents*---*Mellot & Rostron's book will be available on a lending basis from Mrs. Pierson's science library.*

Week #1 9/8 Forces and Motion (assignment is from the handouts labeled week #1)
Prior to class,
Read: p1 'Newton's Laws of Motion' (front & back of page) & page 2 'Pushing and Pulling'
Complete: Homework sheet week #1
Recommended Website Activity:
http://teachertech.rice.edu/Participants/louviere/Newton/law1.html
The above website is an animation of examples of Newton's laws. This is an excellent follow up to the handouts on Newton's laws.
http://www.walter-fendt.de/html5/phen/newtoncradle_en.htm
A Newton's cradle shows the laws of motion very well
Classtime: Experiments will focus on Newton's laws of motion using balloons, matchbox cars and water bottle rockets

Week #2 9/15 What is Flight? Curve and Lift, history of Flight, Bernoulli's principle
Reading for the remainder of the unit is from All About Aircraft and Flight
Prior to class,
Read: p4-7 on flight, curve and lift & p58-59 on the history of flight
Complete: Homework sheet week #2
Website suggestion: **https://www.youtube.com/watch?v=QggNdV9TmvA** How do planes fly? National Geographic kids
https://www.youtube.com/watch?v=bv3m57u6ViE Good explanation of Bernoulli's principle
Classtime: Motion & flight projects, Bernoulli's principle

Week #3 9/22 Air Resistance, Gliding and Soaring, Kites and Sails
Prior to class, Read: p10-11, 14-17
Optional: Make a kite p18,19 as an extra at-home project.
Website suggestion: **https://www.youtube.com/watch?v=AiTk5r-4coc**
Youtube video of the inner workings of an airplane
Complete: Homework sheet week #3
Classtime: we will complete 'streamlining and shape' p12,13 & students will be launching parachute men to demonstrate the concept of 'drag'. Students will be flying model airplanes such as those made on p 28,29.

Week #1 of Ecology

9/29

Determining the health of a stream by the types and number of macroinvertebrates that are found

Prior to class, Read: Handout labeled "Macroinvertebrate groups"

Complete: Homework sheet for today

Website suggestion: **https://www.youtube.com/watch?v=xocR6RbW3wY**

Understanding water quality through the creatures found in a stream

https://www.youtube.com/watch?v=1HysvsXcmVI

Macroinvertebrates and water quality class **at Azalea Park**

Week #4 of flight

10/6

Lighter than air, What's in a wing, Taking flight, propellers

Prior to class, Read: p20,21,24-27, 30, 31, 34- 37, 46, 47

Complete: Homework sheet week #4

Website suggestion: **https://www.youtube.com/watch?v=pQ24NtnaLl8**

Animation of flight terms and how they turn an airplane

In preparation for next week's reading, we will be launching rockets

Optional: Read p48,49, 52-55 Make a propeller model p32,33 & a turbine on p 36,37

Optional: Complete 'how birds fly' activity p50,51

Parental Caution: 'Prehistoric Flyers' p56,57 contains evolutionary material.

Classtime: hot air balloon model demonstration p22,23

Airplane propellers

Week #5 of flight

10/13

Propellers, jet engines, rockets and flying through space

Prior to class, Read: p30,31,34,35,46,47

Complete: homework sheet week #5

Optional: Make a propeller model p32,33 & make a turbine on p36, 37

Read p38-43 and complete activity on p44,45 'speeding through water' Read p 60,61 'Fly into the Future'

Parental caution: note the evolutionary reference to the age of birds in the first sentence p60.

Classtime: Projects focusing on today's reading