ENGAGE IN THE WORK OF SCIENTISTS AND ENGINEERS!

Science notebooks offer an inquiry based approach as a record of students' findings, questions, thoughts, procedures, data, explanations, and wonderings that retell the journey of their science experience documenting scientific inquiry and engineering design.

EARN RAFFLE TICKETS AND HOMEWORK PASSES

- All students that work on the Summer Assignment will earn a Certificate of Recognition.
- Each student that accomplishes the Summer Assignment will earn a Certificate of Completion and a homework pass that can be used during the second quarter.
- For every 4 complete notebook entries, students will get a raffle ticket and an opportunity to win a Super Science Prize including gift cards and 10 *"first in line tickets"* at the snack bar.

ASF Middle School Science Summer Assignment 2020

Purpose: Science activities during summer have shown to improve students' attitudes and interests related to science and science learning. Science is not only a body of knowledge, but more importantly the process of which that knowledge was obtained. This summer practice is designed to help our students nurture their natural curiosity about science and the world around them gaining experience is scientific inquiry and engineering design. .

Time Allowance: We suggest that our students spend a minimum of 40 minutes per week on their science notebook. Those that love to sketch and paint may want to spend more time.

Assignment: Keep a science notebook writing questions, observations, hypotheses, inferences, and reflections as you discover the world around you. You are expected to have a minimum of one entry per week totalling 8 for the summer and you can include as many different types of entries as you want.

- field entries from observations made outside,
- animal studies including habitat and behavior ethogram from observations at online zoos and animal natural habitat webcams,
- Nature transects
- specimen collections (without killing living things), identifications, rubbings, chlorophyll prints, and drawings, and
- experiments including hypotheses, data and conclusions. These can be found in books or online.

Bring your illustrations to life by using realistic colors and don't forget to label the illustrations. Follow your interests and discover the world around you!

Each Entry Must Include	Observations Can Include
Date Title Research Question (can be repeated) Observations Conclusion/Inference Reflection	Illustrations (labelled) Chlorophyll or ink prints of plants Rubbings of objects (fossil, leaf) Data Table Quantitative or Qualitative Data

Materials Needed:

1. Notebook, new or recycled, for the journal.
2. Table of Contents (printed from below and filled in).
3. Pencil or pen for journaling.
4. Watercolors, colored pencils or pens for the illustrations.
5. Transparent packaging tape is good for attaching specimens of soil, seeds, leaves or flower petals.

Helpful Resources:
iNaturalist App (California Academy of Sciences and National Geographic Society) Use phone cameras to take photos of animals and plants and upload to this app to identify.
Country Living links 12 Live Animal Webcams many in zoos and farms.
Explore links to nearly 100 Live Animal Webcams in their natural habitats and sanctuaries.
Science Bob Over 40 simple experiments with explanations that you can do at home.
Nature transects Instructions on how to do a nature transect (surveying natural communities).

Summer Science Notebook Table of Contents

Week	Ending	Date	Entry Title	Page
1	June 19			
2	Jun 26			
3	Jul 3			
4	Jul 10			
5	Jul 17			
6	Jul 24			
7	Jul 31			
8	Aug 7			