**4th Grade Science**

**From Molecules to Organisms**

Next week we will be creating a turtle shell for a STEM Lesson.

**Standards**

4-LS1-1 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

4-LS1-2 Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.

Materials Needed:

I am asking that you send the following materials with your child on Monday September 18, 2017.

Boys: Aluminum Foil

Girls: One can of playdough

Everyone: Cardboard (we will be using this for the turtle shell) and craft sticks.

Here are the plans for next week!

Monday

* Review Standards by completing Activity: Amazing Animal Senses (I have an idea how to do this…I think!) <https://faculty.washington.edu/chudler/amaze.html>
* Research: A Closer Look at Turtles and their Shells

\*Students need to research to find the following information-

1- What is the function of a turtle’s shell?

2-What is the structure of a turtle’s shell? Support with a labeled drawing.

3- Are all turtle shells the same? Why or why not? Describe how they differ.

\*Finish for HW?

Tuesday (in STEM lab)

* Research Sharing Information
* Reviewing the Engineering Design Process
* Introducing Activity: Shell Shocked
* Start Individual Blue Prints (handout)

\*Finish for HW?

Wednesday

* Group sharing of individual blue prints- discuss pros and cons of each one.
* Determine the prototype students will construct – complete group blue print (handout).
* Possibly start Design Process (building)

Thursday

* Continue Design Process
* Conduct Test Trials/Analyze results/Redesign Shell (new blueprint)/Rebuild

Friday

* Final Test Trial (conducted in front of entire class)
* Activity Reflection