

## Portfolio Assignment

This year you will be keeping some of your best work for a portfolio. The categories that you need to fill are based on the standards. These assignments will have a cover sheet that explains why you chose the assignment (how it shows your best work in that area or how it shows you know that standard).

You must have 2 pieces of work from each standard to show you have learned about that subject. So far we have covered:

Standard 1: Cells are the building blocks of life:

- Microscopic
- Cell parts and what they do
- How plant and animal cells are different
- Cells and how they do different jobs (tissue, etc)
- The nucleus has the genetic information.

Standard 2: Genetics

A typical cell of any organism contains genetic instructions that specify its traits, which may be modified by environmental influences.

- Life Cycles and Reproductive Cycles
- Offspring inherit genes from each parent
- A trait can be determined by one or more genes
- Dominant and Recessive Alleles
- DNA is the genetic material located in the chromosomes of a cell.

Standard 4: Earth and Life History

Evidence from rocks allows us to understand the evolution of life on earth.

- Slow geologic processes
- Rock cycle

Standard 7: Investigation and Experimentation

Scientific progress is made by asking meaningful questions and conducting careful investigations.

- Select and use appropriate tools and technology to perform tests and collect and display data (Measure Madness)
- Communicate through the steps of the scientific method (Scientific Method Notes or Cut Outs)
- Communicate with written reports and verbal presentations (Penny Lab)

I will also be looking for work from the different areas of the class, including (one of each):

- Homework – any worksheet you did well on (not workbook)

- Classwork – something creative you did in class (poster, model, or sketch)
- Notes – one neatly completed set of notes
- Lab Work I – a group lab where you showed cooperation (DNA Extraction)
- Lab Work II – a lab that shows observation skills or data taking
- Tests – Your best test to show you have mastered the knowledge in one science area

There will be 14 assignments total!