



Dear Parents,

We are beginning Unit 6, 7, and 8 in which we will learn about heredity, adaptations, and space in Advanced science. Our lab investigations this six-week period will cover human traits. The following standards will be covered, and your child will be expected to do the following:

- Compare the results of uniform or diverse offspring from sexual reproduction or asexual reproduction
- Define heredity as the passage of genetic instructions from one generation to the next
- Recognize that inherited traits of individuals are governed in the genetic material found in the genes within chromosomes in the nucleus.
- Identify some changes in genetic traits that have occurred over several generations through natural selections and selective breeding such as the Galapagos Medium Ground Finch or domestic animals.
- Explain variations within a population or species by comparing external features, behaviors, or physiology of organisms that enhance their survival such as migration, hibernation, or storage of food in a bulb.
- Investigate and explain how internal structures of organisms have adaptations that all specific functions, such as gills in fish, hollow bones in birds, or xylem in plants.
- Accommodations for Space Travel
- Characteristics of Solar System Objects

A great resource for support at home includes:

<http://www.mbgnet.net/bioplants/adapt.html>

<https://www.boeingfutureu.com/virtual-field-trips>

<https://www.nasa.gov>

We encourage you to talk to your child about what they are learning in class. If your child struggles with any material taught during this unit, we offer tutoring for assistance and to help your child gain a better understanding and demonstrate mastery of this unit.

If you have any questions or concerns, please don't hesitate to contact your child's teacher.

Sincerely,

7<sup>th</sup> Grade Advanced Science Team