Week of: 11/30-12/4 Teacher: Stewart Subject: Biology

Monday	TLW:	Objective: Compare genetic variations observed in plants and animals. TEKS: 6D
		Activities: **Genetics 5E** **Engage**: Students look at family pictures and discuss similarities in the people they see in the photos. Students need to determine who's related and who isn't related in the pictures. **Explore**: Students will discuss the different traits many people have, including themselves, family members, and their classmates. A slide will be shown to make sure all students know what traits are. Students will be given a handout with a list of traits, and they are to first think about the traits they may have on this list. Secondly, they will pair up with another classmate to discuss the traits they may have or not have. Finally, they will share these findings with the class. **Explain**: Students will use Power Point notes to aid in identifying key points from the lesson. Students will look at the principle of dominance, they will learn to use Punnett squares to determine all possibilities of genetic crosses, they will learn the principle of independent assortment, and they will also be taught the differences between codominance and incomplete dominance. They will also be taught a few vocabulary terms that will relate to the lesson. **Elaborate**: Students will get practice with new terms from the genetics lesson: genotype, phenotype, heterozygous, homozygous, dominant, and recessive. They will also begin Punnett square practice.
		Materials: Genetics notes, Traits handout, Genetics practice
		Follow Up/HW: Genetics Test December $9^{th}/10^{th}$
Tuesday	TLW:	Objective: Compare genetic variations observed in plants and animals. TEKS: 6D
		Activities: **Genetics 5E** **Warm-up**: Explain the difference between dominant and recessive traits? How do you identify dominant and recessive traits? **Elaborate**: Students will get practice with new terms from the genetics lesson: genotype, phenotype, heterozygous, homozygous, dominant, and recessive. They will also begin Punnett square practice. After all students have completed the first practice sheet, we will review together as a class and they will get more practice on creating Punnett squares. **Evaluate**: Students will take a Genetics quiz on Punnett squares and on the new terms they learned from the Genetics unit.
		Materials: Genetics practice, quiz
		Follow Up/HW: Genetics Test December $9^{th}/10^{th}$

Wednesday	TLW:	Objective: Compare genetic variations observed in plants and animals. TEKS: 6D
		Activities: **Genetics** Students' complete **"Smiley face genetics"** where they flip a coin to determine which traits are passed on from parents to offspring. After their "baby" is complete, students draw the face of the baby and view the class results to see the diversity that one set of parents can create. Students will compare the smiley face they created to 2 of their classmates. They will indicate the genotype and phenotype for the smiley face for each trait in a chart provided by the teacher. Students will be introduced to genetic variation which will allow them to understand why their smiley faces are not exactly like everyone else in the classroom. We will look at the recessive traits and figure out how many times they occurred per trait. **Dihybrid Cross** **Engage/Explore**: Family Guy Dihybrid Cross **Explain**: The teacher explains how to complete Dihybrid Crosses, while students record notes using Cornell notes given on Monday. **Elaborate**: Students practice Dihybrid Crosses
		Materials: Collage of traits, Smiley face genetics activity, 2 pennies, colored pencils, markers
		Follow Up/HW: Genetics Test December $9^{th}/10^{th}$
Thursday	TLW:	Objective:
		Activities: **Same as Wednesday**
		Materials:
		Follow Up/HW:
Friday	TLW:	Objective: Compare genetic variations observed in plants and animals. TEKS: 6D
		Activities: **Warm-up**: Students will continue practice on Dihybrid Crosses. **Elaborate**: Students will be given more practice on dihybrid crosses. Students complete homework activity on dihybrids. Review of dihybrid crosses before exit ticket. **Evaluate**: Students complete Dihybrid Cross Exit Ticket
		Materials: Dihybrid Cross Practice
		Follow Up/HW: Genetics Test December $9^{th}/10^{th}$