**6th Grade Science**

**Chapter 12 Study Guide**

**Know the following definitions:**

1. Fertilization- when the ovule and pollen combine (this results in the male reproductive cell and female reproductive cell become one new cell)
2. Pollination- the transfer of pollen from the anther to the stigma
3. Stamen- the male part of the flower
4. Pistil- the female part of the flower
5. Sepal- the leaf-like structures that cover the petals at the bottom of the flower
6. Angiosperm- a flowering seed plant
7. Gymnosperm- plants that have seeds that are protected by cones or a fleshy seed coat
8. Germination- when the seed absorbs water and swells
9. Cotyledons- special seed leaves that store food for the developing plant
10. Gestation- the time it takes for a zygote to go from conception to birth
11. Asexual reproduction- reproduction that only requires one organism, no male or female cells are required
12. Binary fission- when an organism splits in half and becomes 2
13. Budding- when a new organism comes off a parent organism by asexual reproduction
14. Regeneration- reproducing by growing a part that has been broken off
15. Stolons- the creeping portion of a stem that can generate a new plant
16. Vegetative reproduction- when a part of a plant that usually does not undergo reproduction develops a new plant

**Be able to label the parts of the flower: see the diagram in your book on the first page of the chapter**

* Anther
* Filament
* Stamen
* Petal
* Sepal
* Stigma
* Style
* Ovary and ovule
* Pistil

**Know the difference between self-pollination and cross pollination:** that is self-pollination occurs when the pollen of the flower lands on the stigma of the same flower or another flower on the same plant, while cross-pollination occurs when the pollen of one flower is transferred from the anther of that flower onto the stigma of the flower of another plant.

**Know the difference between a seed and a spore:** A seed contains stored food and is made up of many cells and a spore is made up of only one cell and does not store food

**Know :**

**When a flower is pollinated that the pollen falls on the stigma and falls down the style to the ovary**

**When a plant is fertilized the ovule becomes the seed coat and the ovary develops the fruit**

**A zygote grows into an embryo**

**Ferns and mosses reproduce by spores**

**The fruit contains the seed inside**

**The seed parts are the embryo, cotyledons, and the seed coat**

**Marsupial’s babies finish their development in a pouch after it exits the uterus**

**Placental animal’s babies develop inside of the mother’s body**