

# 7<sup>th</sup> Grade Science

## **Teacher:**

Mrs. Mary McIntyre

## **Distribution of Grade:**

50% Daily Scores

50% Test Scores

## **Classroom Rules:**

1. Bring needed materials to class.
2. Be on time.
3. Be respectful of other people and property.
4. No eating or drinking. Keep chewing gum in your mouth.
5. Be willing to work.

## **Expectations:**

1. Work to the best of your ability.
2. Follow the rules.
3. Be prepared for class.

## **Homework Policy:**

It is important that students be responsible for turning assignments in on time. If a situation arises that makes this impossible, the student will not be penalized. Unexcused absences will result in a zero. Late work will be penalized as follows: 1<sup>st</sup> day -10%, 2<sup>nd</sup> day -20%, 3<sup>rd</sup> day -30%, 4<sup>th</sup> day -40%, 5<sup>th</sup> day and beyond -50%.

## **Finals:**

Students will take semester tests at the end of 2<sup>nd</sup> and 4<sup>th</sup> quarter. These will make up 10% of the semester grade.

## **Course Objectives:**

1. The student will apply the scientific method.
2. The student will explain the system of classifying and binomial nomenclature.
3. The student will identify names and functions of each part of the cell.
4. The student will explain how living things are organized.
5. The student will demonstrate an understanding of basic chemistry.
6. The student will list the differences between producers and consumers in regard to photosynthesis and respiration.
7. The student will compare and contrast asexual reproduction and mitosis and sexual reproduction and meiosis.
8. The student will describe the structure and function of DNA and RNA.
9. The student will explain how traits are inherited.

10. The student will describe Darwin's theory of evolution.
11. The student will describe characteristics of bacteria, protists, fungi, plants and animals.
12. The student will describe how flowering plants reproduce sexually.
13. The student will compare and contrast rocks and minerals.
14. The student will classify rocks as igneous, sedimentary or metamorphic.
15. The student will describe nonrenewable, inexhaustible and renewable energy resources.
16. The student will describe several erosional forces.
17. The student will identify the effects of plate tectonics.
18. The student will explain the importance of fossils in geologic history.
19. The student will describe the air and water cycles.
20. The student will describe the role of the Earth's atmosphere.
21. The student will explain the transfer of thermal energy by conduction, convection and radiation.
22. The student will compare and contrast weather and climate.
23. The student will explain the sun- earth- moon system.
24. The student will classify celestial bodies in the solar system.

### **Teachers' Comments:**

If you have questions or concerns, please don't hesitate to contact me. It is better to resolve problems as soon as possible. I am available before school, after school, or during 1<sup>st</sup> period. If your

child is failing, they will need to attend HELP sessions until they are no longer failing. These may be done before or after school. I look forward to working with your son/daughter this year.

I have high expectations for every student. Working together, we can make this a successful year. Please sign the bottom of this sheet and have your child return it by August 27<sup>th</sup>. Thank you.

We received and read the course outline for 7<sup>th</sup> grade Science.

Student signature: \_\_\_\_\_

Parent signature: \_\_\_\_\_