

Oakview Preparatory School

Long Range Plans 2023-2024

Teacher: *Karen Austin*

Curriculum: North American Division of SDA and New York State

Other Resources: videos, hands on interactive experiments, supplemental resource books

Assessments: quizzes, tests, research reports, projects, class participation, cooperative group work, classwork and homework

Grading Policy: homework **10%** classwork **20%** projects **20%** quizzes **5%** tests **40 %** Misc. **5%** late work will have a **5 % deduction**

The students will master the following topics with 90% accuracy and score 85% or better on tests and given activities by the end of the stated time period.

Small adjustments may be made at the teacher's discretion

Science Grade: 7

Text: By Design Level 7, Explore God's World,

First Marking Period

September

Gummy DNA, cell membrane p 146 BFEK

Lab safety procedures

Scientific method review

Project assignment

Chapter 1

Bacteria, Protists and Fungi

October

Chapter 2

Characteristics of invertebrates

How are invertebrates classified?

What are Sponges, Cnidarians and Worms?

What are Mollusks and Echinoderms?

What are Arthropods?

How do invertebrates use their senses?

December

Chapter 4

September Contd.

What are Bacteria?

What are Protists?

What are Fungi?

MAP Tests of Basic Skills

Second Marking Period

November

Chapter 3 Characteristics of Vertebrates

What are Fish?

What are Amphibians and Reptiles?

What are Birds and Mammals?

How do vertebrates behave and communicate?

January

Chapter 6 contd.

Review for Midterms

Third Marking Period

February

How Organisms Inherit Traits

Lab: air pressure w/ soda p.128 ESFEK,
heads/tails BFEK p.118

Chapter 6

Infectious Disease

How does the immune system protect the body?

What are infectious diseases?

How are STD's prevented?

How does the world combat disease?

Third Marking Period

March

Chapter 5

Human Development and Sexuality

How do organisms reproduce?

What are the challenges of sexual maturity

Why is sexual abstinence important?

May

Chapter 13

Work, Power and Machines

How are work and power related?

What are inclined planes, wedges, and screws?

What are levers, wheels, and axles and pulleys?

May contd. Chapter 14

Energy Transferred and Transformed

What are the forms of energy?

How is energy transformed?

What is thermal energy?

How is thermal energy transferred?

June **Final Exams**