

Science Grade: 8

Text: By Design Science Level 8 Explore God's Creation (supplement)

First Marking Period

September Lab/Projects: How many on a penny text,

Lab: p 141 potato Pressure,
or down diaper dissection internet

Scientific Method

Lab safety procedures

Scientific method review

Project assignment

Chapter 1

What are theories of origin?

What does the evidence show?

What is phylogenetics?

Chapter 2 NT

Types of Plants

How are plants classified?

What are spore Producing Plants?

What Are Gymnosperms?

What are Angiosperms?

October

Lab : stomata P 30 BFEK, BFEK ,
CUTTING PLANT plants grow better in which soil internet

Chapter 3 NT

How Plants Survive

How do plants capture energy?

What are plant adaptations?

How do humans effect the survival of plants?

Chapter 4 NT

How Animals Survive

What effects ecosystem dynamics?

What are animal adaptations?

What changes occur in ecosystems?

How do animals respond to environmental changes?

Second Marking Period

November - December

Chapter 5 NT Lab: Text p 226 Class activity Goldfish,

Genes and Disease

What are genetic disorders?

What is cancer and how is it caused?

What can trigger genetic disease?

How does technology keep people healthy?

Chapter 6 NT

Your Lifestyle Effects Your Body

How do drugs affect your body?

How do alcohol and tobacco affect your body?

A plan for your body

Chapter 7NT

Making Decisions about your body

How can you make wise decisions?

How do you know information is correct?

How can you be an informed consumer?

ip

January

Chapter 11 NT

Lab: Text p 434 18:1 Kool Colors,

Ways matter changes

What are physical changes?

What are mixtures and solutions?

What are acids and bases?

Midterms January 12-19, 2019

Third Marking Period

February Chapter 12 NT

Lab: Solubility of liquids, Text p. 462 Cabbage Chemistry,

Elements of the periodic table

What are atoms?

How are elements organized?

What are metals?

What are nonmetals and metalloids?

What are radioactive elements?

Chapter 13 NT

Types of chemical bonds

How do chemical bonds form?

How do covalent bonds form?

How are chemical formulas helpful?

March Labs/projects: Does reaction rate change with particle size internet Chemical or Fizzical, 16.4

Chapter 14 NT

Chemical Reactions

How can we observe Chemical changes?

How can we describe chemical reactions?

How can we control chemical reactions?

Chapter 8 NT

The Atmosphere, Weather and Climate

What makes up earth's atmosphere?

Where is earth's water?

How are air pressure and winds linked?

How are weather patterns and severe storms related?

What is climate?

Fourth Marking period

April

Chapter 9 NT

Resources and their uses

How can we use resources wisely?

How have people affected earth's water resources?

How have people affected earth's atmosphere?

Chapter 1NT

How life on earth has changed

What are theories of origins?

What does the evidence show?

What is Phylogenetic?

May

Lab: density popcorn internet, does liquid weigh more after freezing or boiling?, separating mixtures Internet, density tower

Chapter 10 NT

Earth's History

How does earth change?

How old are earth and its layers?

What does the fossil record show?

June

Review for finals

Final exams May 31-5, 2019