Science 9: Natural Science (Exam Review)

Space Unit:

The order of the planets

N, V, E; M. J. S. W. N.

Inner planets and outer planets
hacky planets
errestnal planets

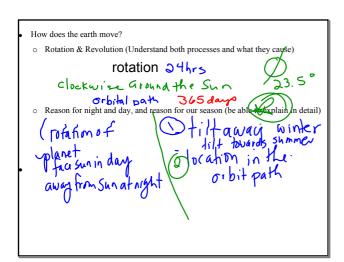
What are the main differences between the two groups

What are they divided by? aster oid but

How do they travel?

Circular of bit around
Sin

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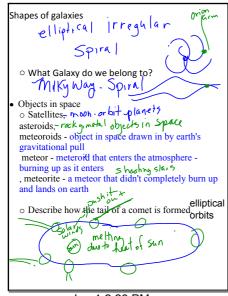
• Our solar system
• Earth center method vs the Sun center method
• How old is our solar system?
• Current

We ie Current

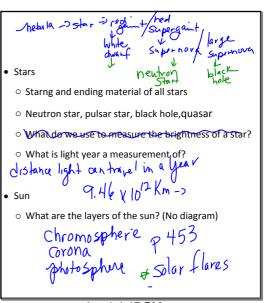
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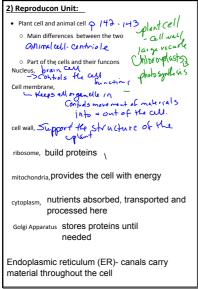
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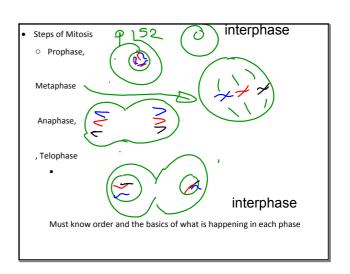
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• Why is it important for cells to divide?

I unchin better when small
new new cells to continue species
• Difference between Sexual vs. Asexual reproduction

Oparents

Advantages and Disadvantages

- genetically diverse offspring vs. idential to
parent

- Slower process

- Micharda partner

• Types of asexual reproduction

- budding

- binary first for

- pore formation

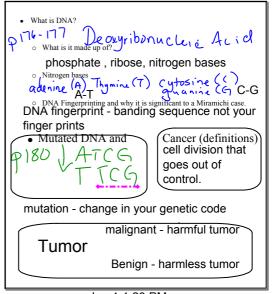
- regarding then

- regarding the production

- production

-
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    Difference between Meiosis and Mitosis (Make sure you understand each process)

fully)
   \circ \quad \text{How many chromosomes found in each type of cell produced by either process?} \\

    The end results of each process

   O What types of cells each process produces?
          Meiosis
                                              Mitosis
   2 stages of division
                                         1 division stage
   23 chromosomes
                                          46 chromosomes
                                            somatic cells
      sex cells
                                      skin cells, brain cells,
   sperm, eggs
                                      bone cells, etc
   4 new cells
                                            2 new cells
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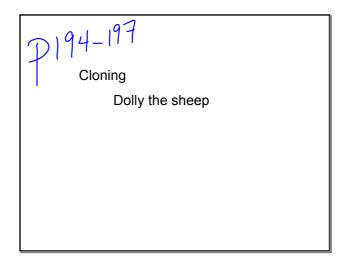
Big bang theory be able to explain it

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 Nondisjunction and how we can determine genetic disorders prior to birth Meiosis goes wrong, sex cells end up with abnormal number of chromosomes, too few or too many

ex. Down syndrome - trisomy 21 - 47 chromosomes in total

Turner syndrome female with 45 chromosomes- only one Klinefelter syndrome - extra X chromosome - xxy 47 chromosomes



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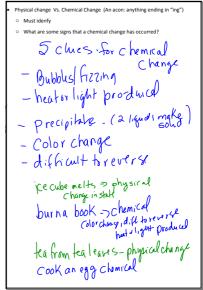
3) Chemistry Unit:

- Warning symbols
- Physical Properes
 - o Hardness, malleability, ducle, melng/boiling point, viscosity, color, state, ...
 - Must idenfy
- Chemical Properes
 - o Combusble, corrosive

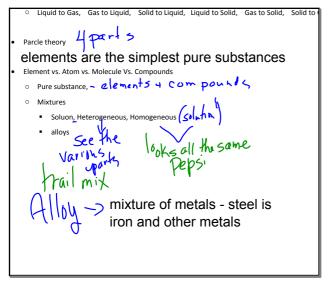
Must Idenfy

reacts with acids
gold does not
pyrik does

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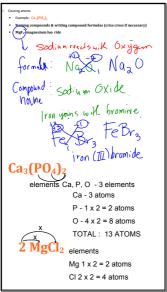


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Atoms
electrons, protons, and neutrons
Where are they found in an atom?
What are their charges?
He
12.31
8 h

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Periodic Table

How is it ordered? Now ordered by increasing atomic NUMBER

Metals , Nonmetals, State (Solid, Liquid, Gas) metals - le and middle to stair step nonmetals - H & on the right - to the right of stair step state at room temperature solid - white leering liquid - red leering gas - blue leering

Periods - ROWS - horizontal

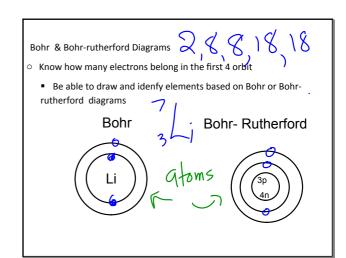
Groups & Families - vercal column or columns

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Using the periodic table to answer the following

- # Protons = atomic number
- #Electron = Atomic Number
- Mass number = # of Protons + # of Neutrons
- **Neutrons** = Mass # atomic #
- What are isotopes?

different number of neutrons for the same element/atom



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4) Electricity Unit:

- ✓ Electrostac
- Stac Electricity
 - Fricon , Contact and Inducon
 - Know the main difference between all three
- Laws of Electric Charges
 - Aracon test vs Repulsion test

- Chart will be provided make sure you know how to use it
- Insulators vs. Conductor
 - Know the definion of each term
- o Be able to idenfy some a good insulator of a good conductor

What material is used for wires? COPPER - good conductor

What material covers wires and why?rubber/plastic - not good conductors - doesn't allow electrical current to escape.

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- Current electricity electrons can flow freely
 - Electric Circuit
 - Open and Closed Circuits switches
 - Electric Current
 - Definion

- Schemac Circuit Diagrams
 - \circ Must recognize all symbols & use them
- Series and Parallel Circuit
 - Main Difference
 - \circ And be able to idenfy & Draw them

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- What is Electrical Potenal?
 - What is it unit of measurement? Amps & volts-

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