


Dbios CHARTS

PHYSICS & CHEMISTRY

ENERGY FORMS

• ENERGY IS THE ABILITY TO DO WORK.
 • WE CAN STORE ENERGY IN DIFFERENT FORMS AND USE IT AT A LATER DATE.
 • MACHINES NEED THE ENERGY STORED IN THEM TO BE ABLE TO PERFORM TASKS.

COMMONLY USED SYMBOLS: E
MEASURED IN (SI UNIT): JOULE (J)
EXPRESSED IN OTHER QUANTITY: $\frac{1}{2}mv^2$ **DIMENSIONAL FORMULA:** $[ML^2T^{-2}]$



1818-1889

POTENTIAL ENERGY (PE)

THIS IS THE ENERGY A BODY HAS BECAUSE OF ITS POSITION OR POSITION.



ELECTRICAL ENERGY

THIS IS PRODUCED BY ELECTRIC CURRENTS IN WIRES AND TRANSFORMERS.



HEAT ENERGY

HEAT ENERGY IS CONVERSION OF ENERGY INTO MOTION.



LAW OF CONSERVATION OF ENERGY

IN EVERY CLOSED SYSTEM ENERGY IS NEITHER CREATED NOR DESTROYED, ONLY CONVERTED FROM ONE FORM TO ANOTHER. AMOUNT OF ENERGY CONSERVED. THE NUMBER OF QUANTUMS OF ENERGY PRESERVED. THE TOTAL AMOUNT OF ENERGY IN SYSTEMS CANNOT REPRODUCE.

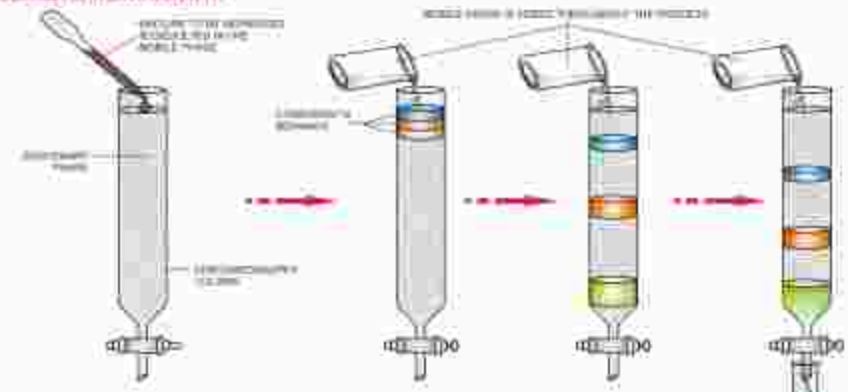


ENERGY TRANSFORMED TO LIGHT SURFACE CAUSE IT TO GROW OUT LIGHT AND WATER TO BE ENERGY AND TO BE WATER MOLECULES TO BE ENERGY.

WATER PLANTS CAN USE WATER MOLECULES TO BE ENERGY AND TO BE WATER MOLECULES TO BE ENERGY.

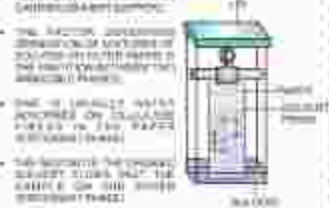
CHROMATOGRAPHY

COLUMN CHROMATOGRAPHY

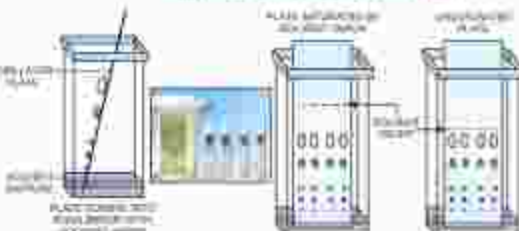


• SOLVENT FRONT
 • SAMPLE FRONT
 • R_F VALUE

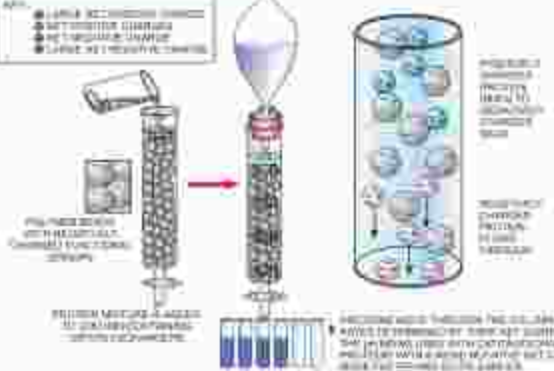
WATER CHROMATOGRAPHY



THIN LAYER CHROMATOGRAPHY (TLC)



CHEMICAL CHROMATOGRAPHY



TYPE OF CHROMATOGRAPHY	BASIC PRINCIPLE
COLUMN	Absorption
WATER	Absorption
THIN LAYER (TLC)	Absorption
GAS	Absorption & Volatility
PAPER	Absorption
ION EXCHANGE	Absorption
SIZE EXCLUSION	Absorption

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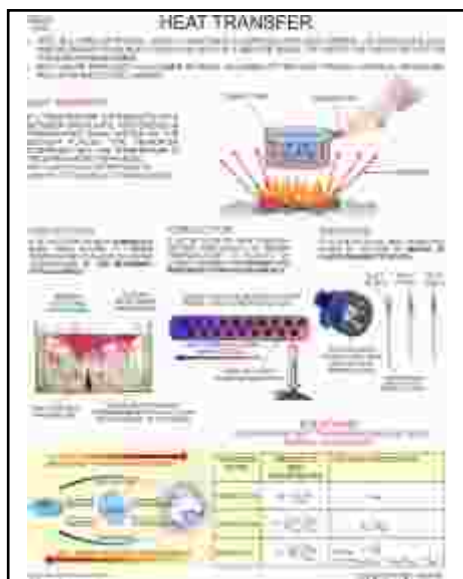
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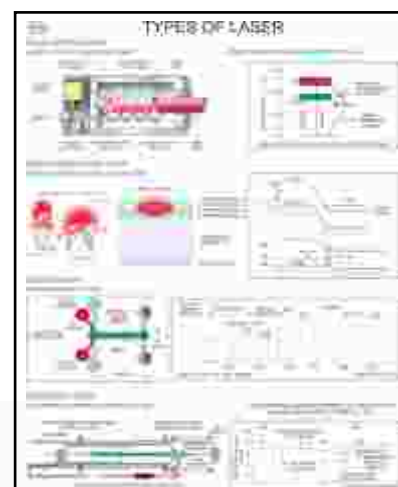
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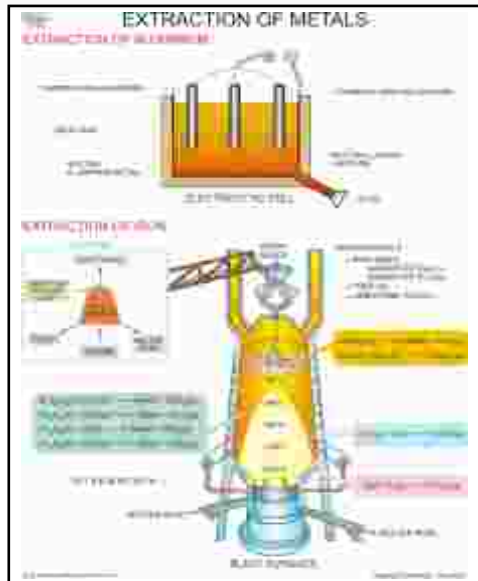
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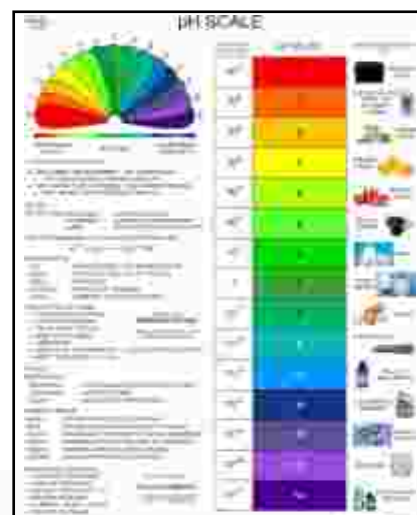
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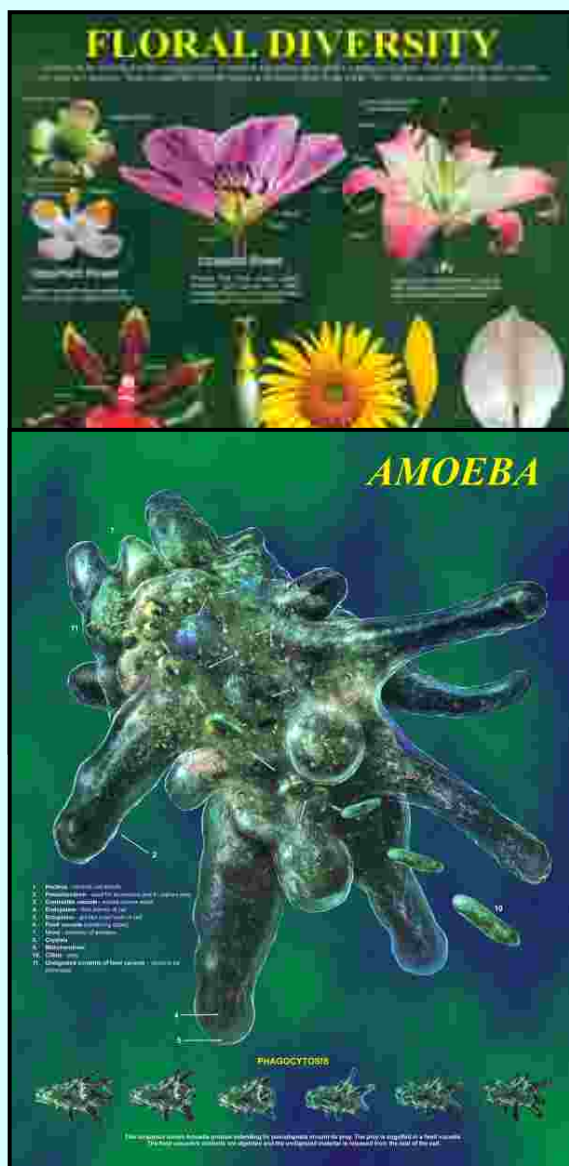
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