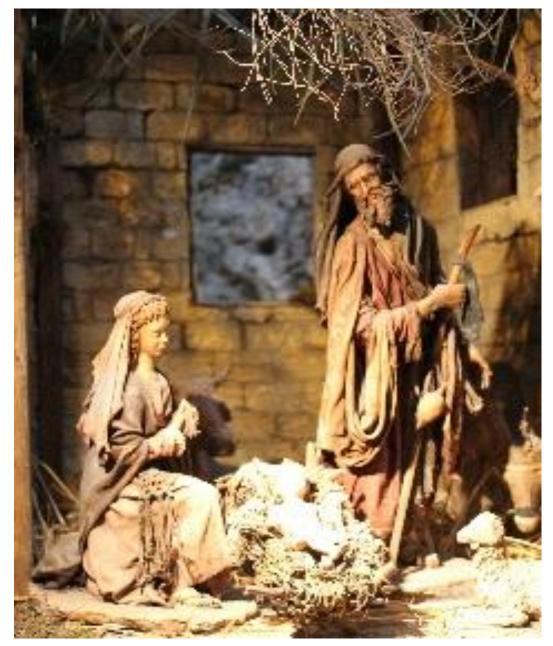


SCENIC SCIENCE LESSONS 6B



ISRAEL IS DIFFERENT

THEIR LAND WAS GIVEN BY GOD

THEY CLAIMED ONE TRUE GOD (when most others claimed many gods)

TAUGHT GOD'S COMMANDMENTS

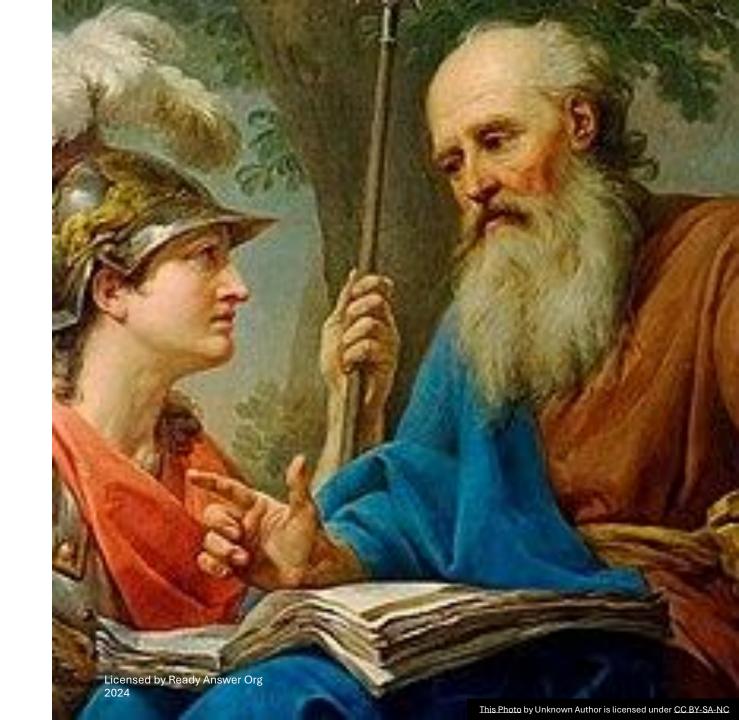
GOVERN BY HIS LAWS AND STATUTES

AS THE NATION CHOSEN TO BRING THE SAVIOR OF THE WORLD TO LIFE, AND TO BRING HIS WORD TO LIGHT THE HEBREW NATION NEEDED A SAVIOR THEY COULD SHARE WITH THE WORLD



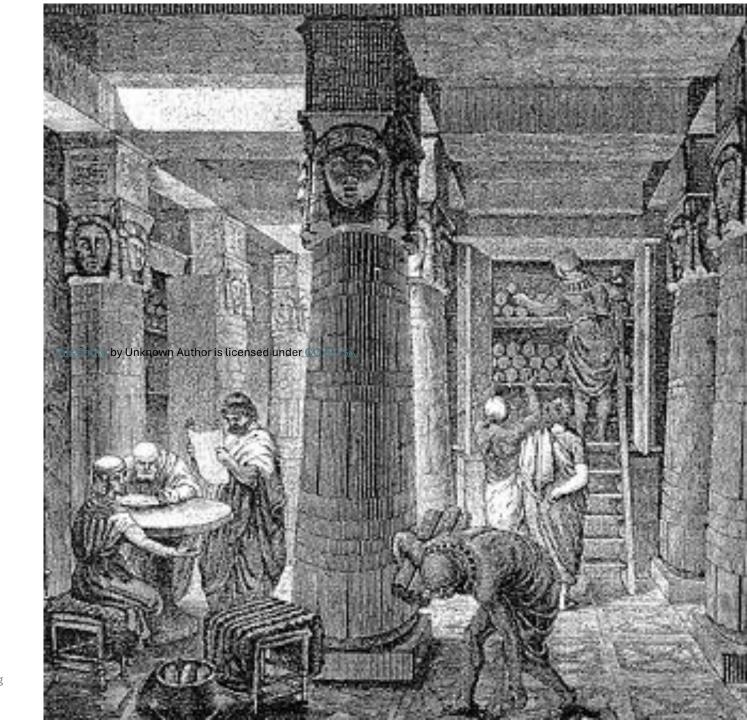
AND, ISRAEL NEEDED PATHWAYS TO SHARE

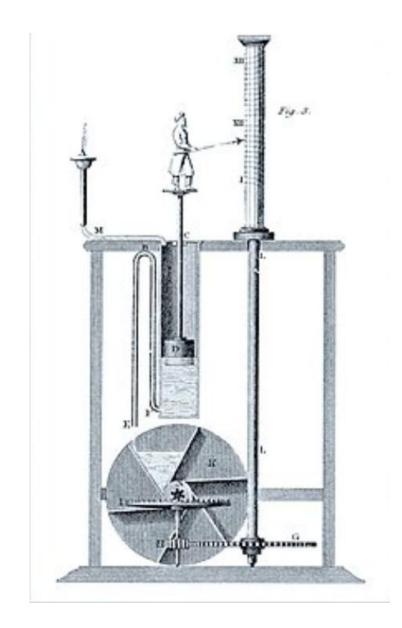
- READERS
- WRITERS & SCRIBES
- INTELLECTUAL AWARENESS
- PAPER PARCHMENT, PAPYRUS, MEDIUMS TO WRITE ON
- PEACE AND PROTECTION
- ROADWAYS
- TEACHERS & DISCIPLES



THE CLASSICAL AGE

- Thoughts, ideas, and schooling flourished
- Greek thinkers teach mathematics, physics, natural law, and logic beginning around ~600 BC
- The Library of Alexandria compiles knowledge from around the world, ~300 BC





CONCEPTS PUT INTO MOTION

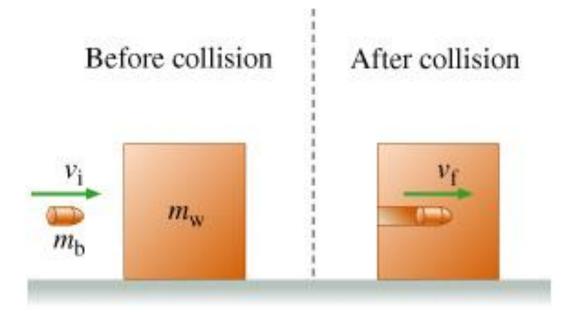
Force = mass x acceleration Gravity also (m x a) Rotational Motion (wheels, shafts, etc)

BATTERING RAMS: Simple physics F = ma

WATER CLOCK ALARMS– water weight (gravity) turns a shaft on cogs, turns a shaft with gears, attached to another shaft... water level rises to indicate elapsed time

SPEED + METAL + F = ma The larger and faster the battering ram... The greater the force...





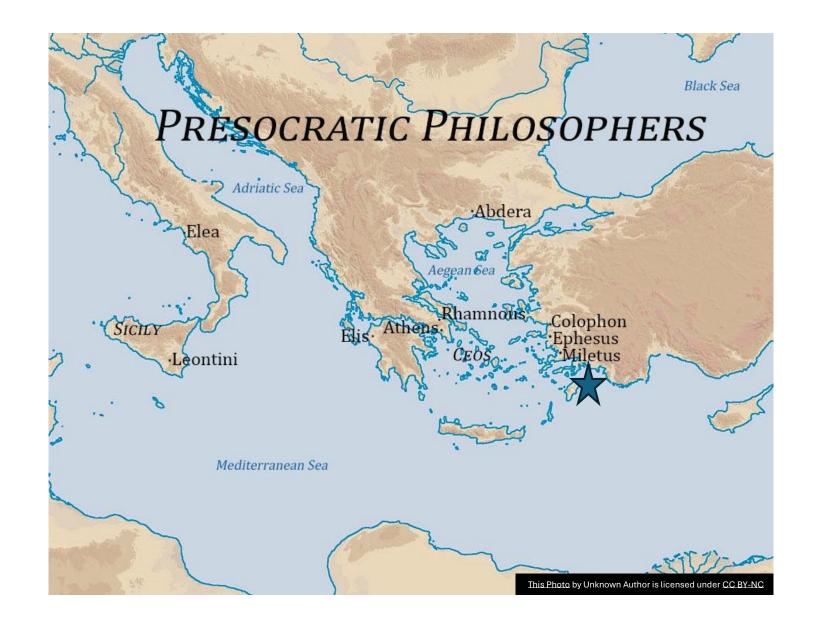
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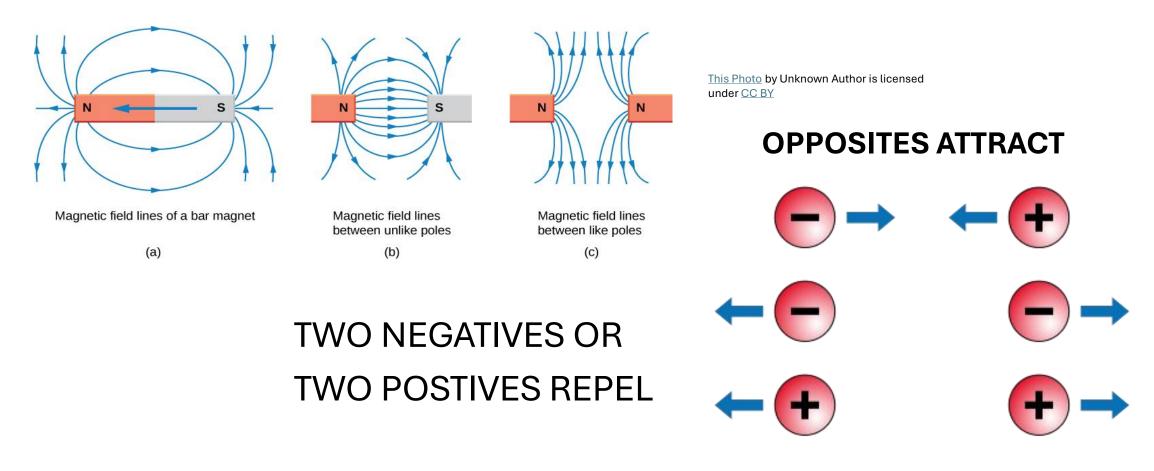
Thales of Miletus 600 BC

DEMOSTRATES & TEACHES PROPERTIES OF:

- MAGNETISM
- STATIC ELECTRICY
- EQUINOXES AND SOLSTICES
- ECLIPSES
- WEATHER
- AND DEDUCTIVE REASONING



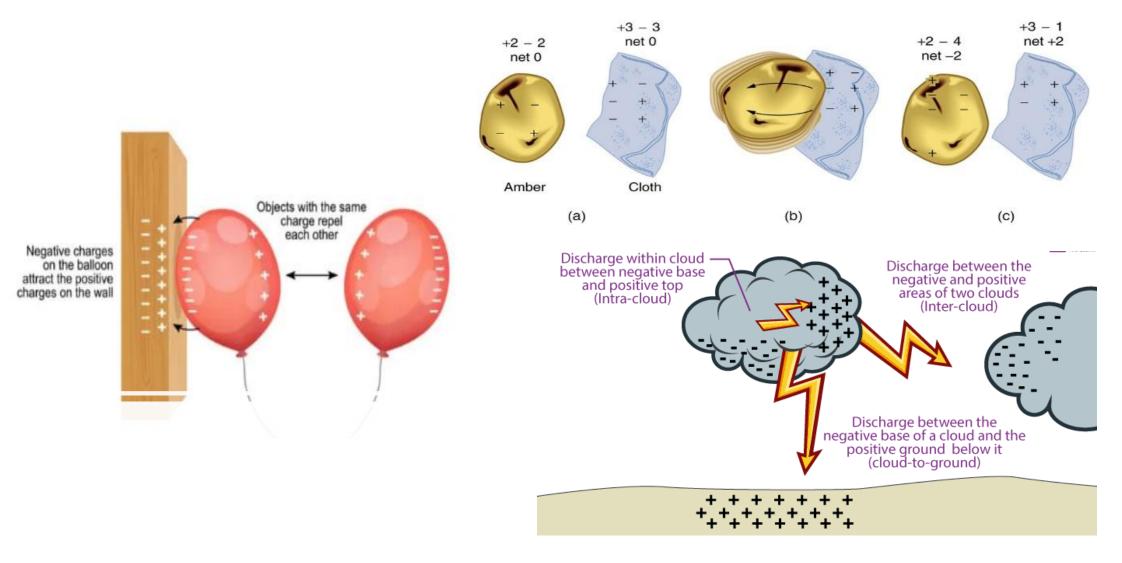
THALES – ONE OF THE EARLIEST PHILOSOPHERS DEMONSTRATES PROPERTIES OF MAGNETISM

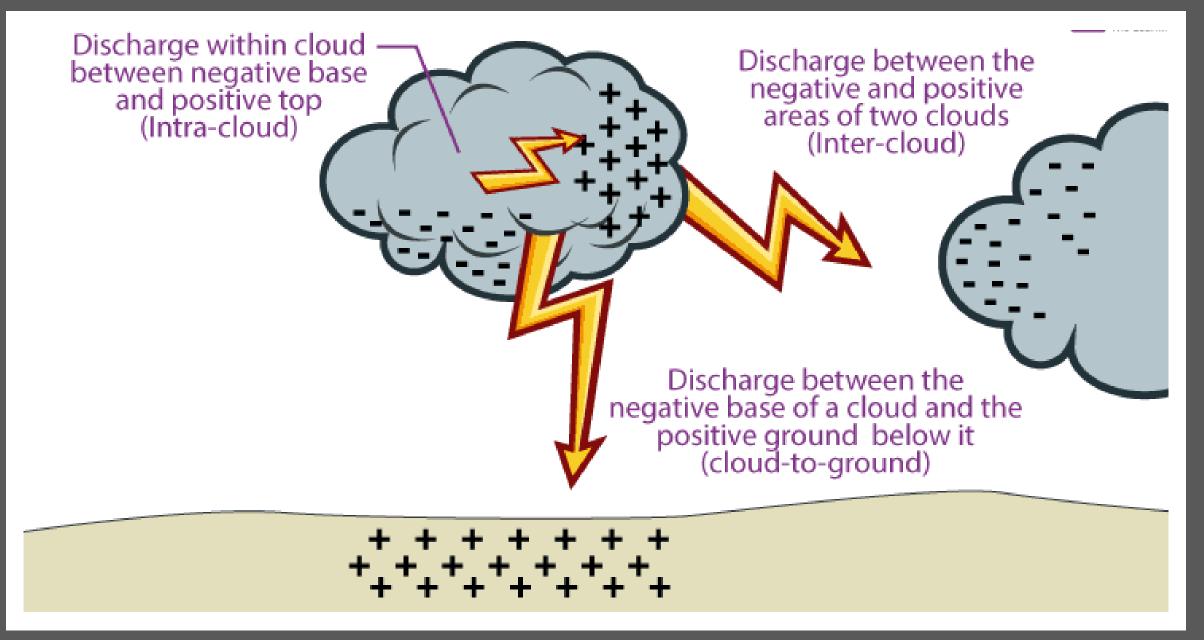


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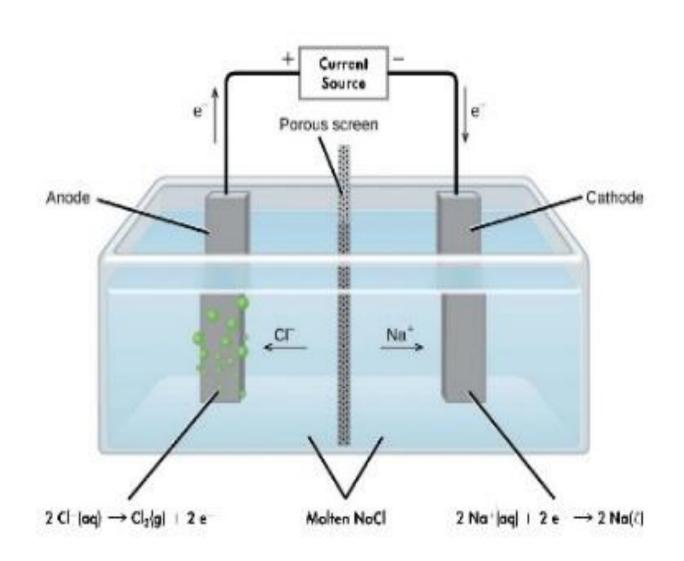
THALES EXPLORED - STATIC ELECTRICITY WITH AMBER AND WEATHER





SALT BATTERY

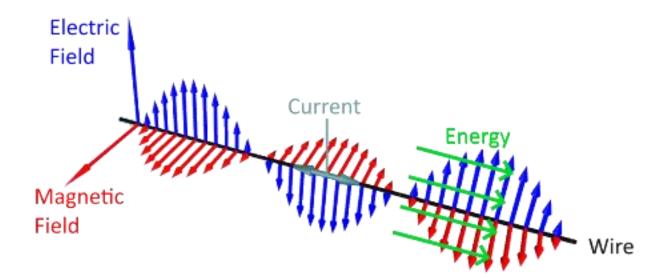
- Harnessing electron motion to create a power source
- Positive & Negative charges
- Example Na+ and Cl-



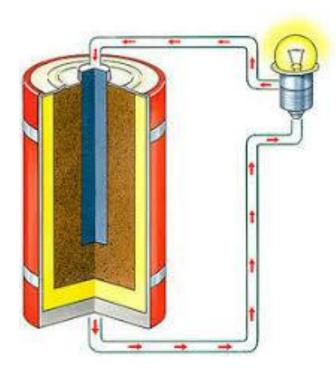
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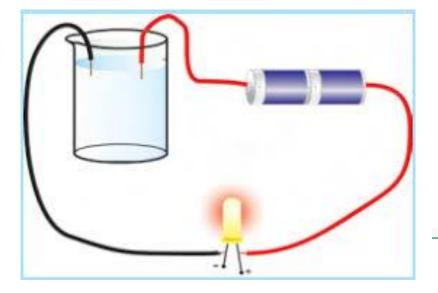
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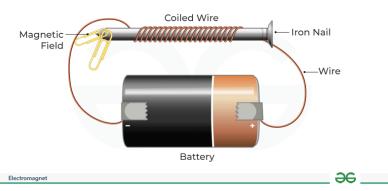
ELECTRICAL POWER







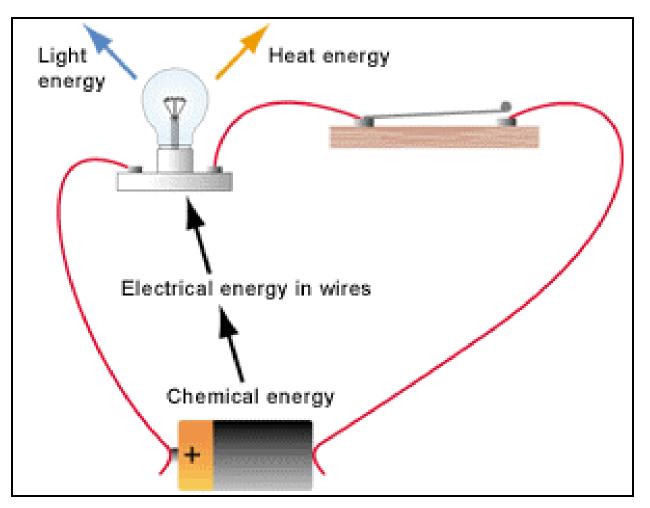




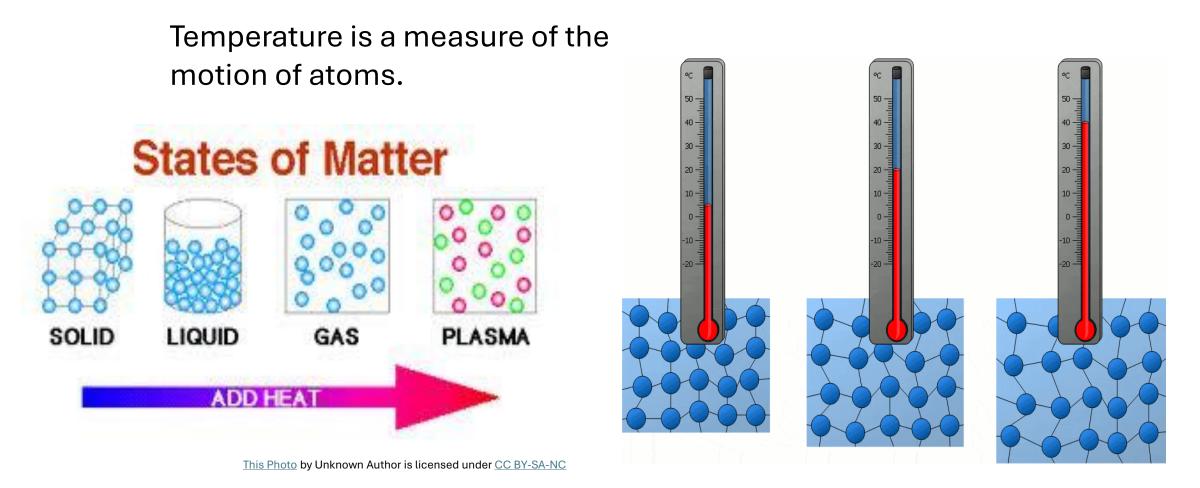
BATTERY POWER AT WORK

ENERGY IS...

- Energy is released/generated in various forms
- Seen in simple circuits:
 - Chemical Energy
 - Heat & Kinetic
 - Light Energy
- Kinetic, if the energy is in motion
- Potential, if the energy is in storage

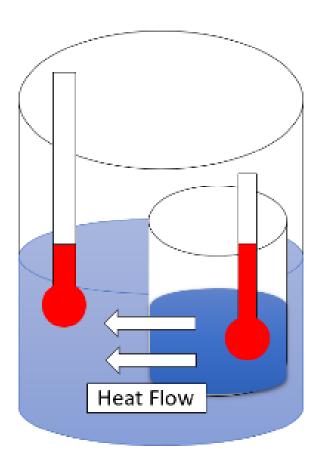


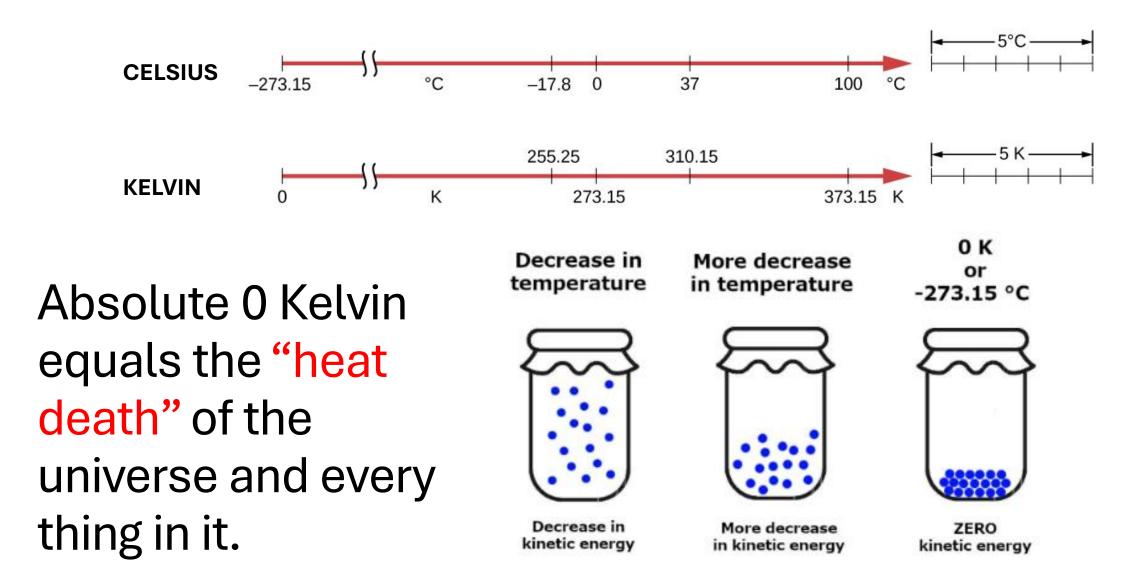
THE KINETIC ENERGY OF MATTER AT ABSOLUTE 0 KELVIN IS "ZERO"



Laws of Thermal Energy

- Law 1: Energy can be changed from one form to another.
- Law 2: Heat naturally flows from higher to lower-temperature





REMEMBER THESE THINGS

Power isn't over-rated, it's undercharged. We've rarely been charged with defeating giants even though we have been infused with power from above. Our fears tell us to avoid tough tasks or talk such as, "You can't talk about Christ here!" But, Ephesians 1:19b-20a command us to, "understand the incredible greatness of God's power for us who believe in Him. This is the same mighty power ²⁰ that raised Christ from the dead..."

Ephesians 6:10-12 ¹⁰ Finally, be strong in the Lord and in his mighty power. ¹¹ Put on the full armor of God, so that you can take your stand against the devil's schemes. ¹² For our struggle is not against flesh and blood, but against the rulers, against the authorities, against the powers of this dark world and against the spiritual forces of evil in the heavenly realms.