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SCENIC SCIENCE

VOL 1/LESSON 1A

From our Earliest Days we have explored physics...

- Pulling
- Pushing
- Dropping
- Moving

Exploring matter, motion, and everything we can touch




PHYSICS...

the study of matter, energy, and motion...



MATTER – something that has mass and takes up or occupies space.

MOTION – the action of moving



Physics is also
about the energy
to do **WORK**

And the science
behind the inventions
we use to make our
work easier and more
productive

GOD'S WORKMANSHIP...

WORKMANSHIP... the degree of skill with which something is made, or a job is done.

1. How does creation show God's workmanship?
2. What "good works" are we designed to do?



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WORKMANSHIP

GENESIS 1:27 God created man in his image, in the image of God he created them...

EPHESIANS 2:10 For we are his workmanship, created in Christ Jesus for good works, which God prepared beforehand, that we should walk in them.

GOD CREATES...

GOD KNOWS...

GOD WORKS...

6 DAYS AND RESTED ON THE 7TH



From the Beginning of Man's Time...

TIMELINE: ~4500-4000 BC
(~6-6500 years ago)

Man was designed for work

God placed Adam & Eve in
the Garden of Eden

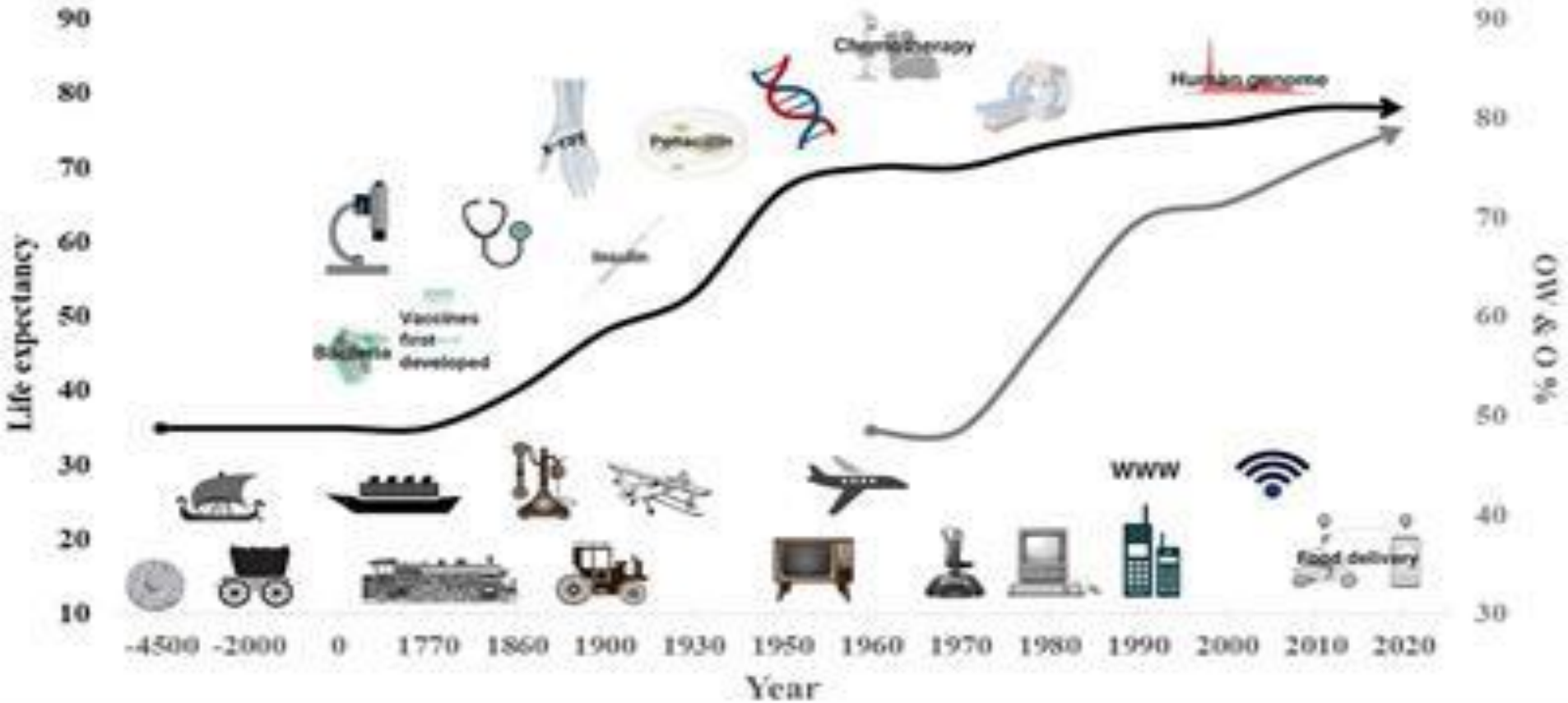
Sin resulted in a Lost
Paradise

Tools were needed to:
Build Shelter
Grow Food



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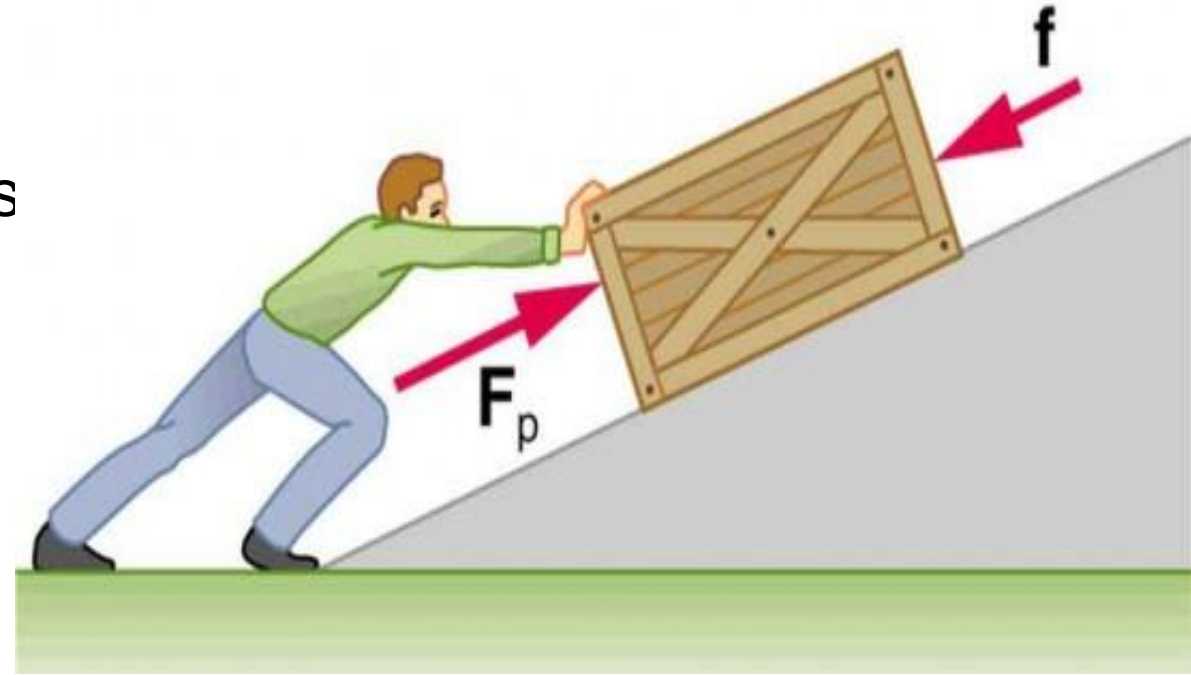
TOOLS AND INVENTIONS = EASIER WORK



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WORK REQUIRES MOTION

- **MATTER** – something that has mass and takes up or occupies space.
- **MASS** – inertia or resistance to motion, an amount of matter with weight.
- **ACCELERATION** – a change in motion, positive, negative, or a change in direction.



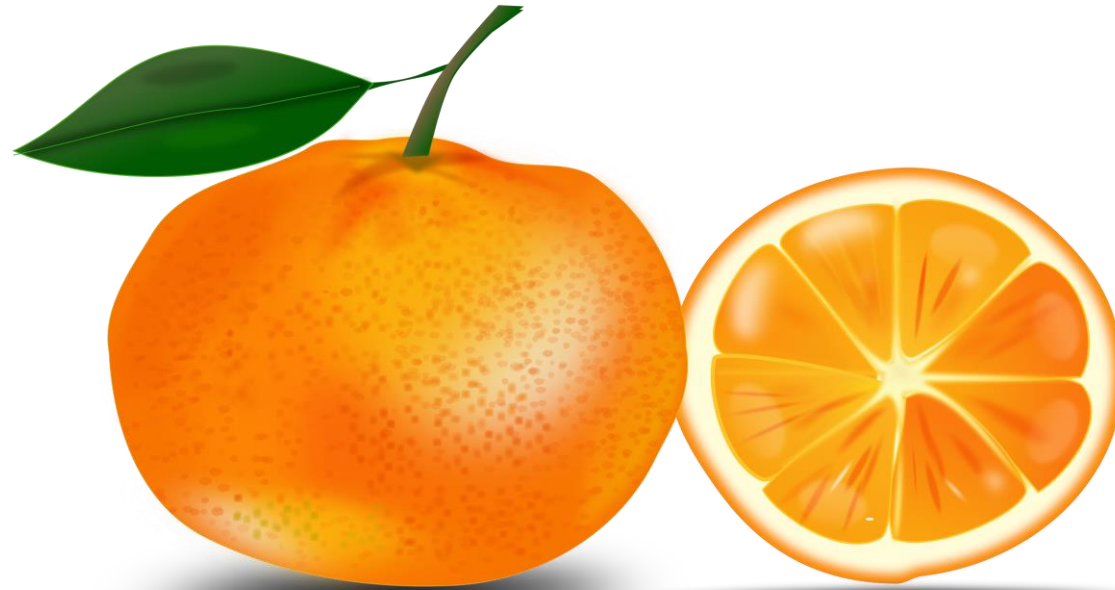
LAWS OF MOTION

- **Newton's 1st Law – the Law of Inertia** which states an object in motion stays in motion, an object at rest remains at rest unless a force acts upon it.
- **Newton's 2nd Law – the definition a force which is: $\text{Force} = \text{mass} \times \text{acceleration}$ ($F = ma$)**
- **Newton's 3rd Law – for every action there exists is an equal and opposite reaction, also known as the **action/reaction law.** →→→**



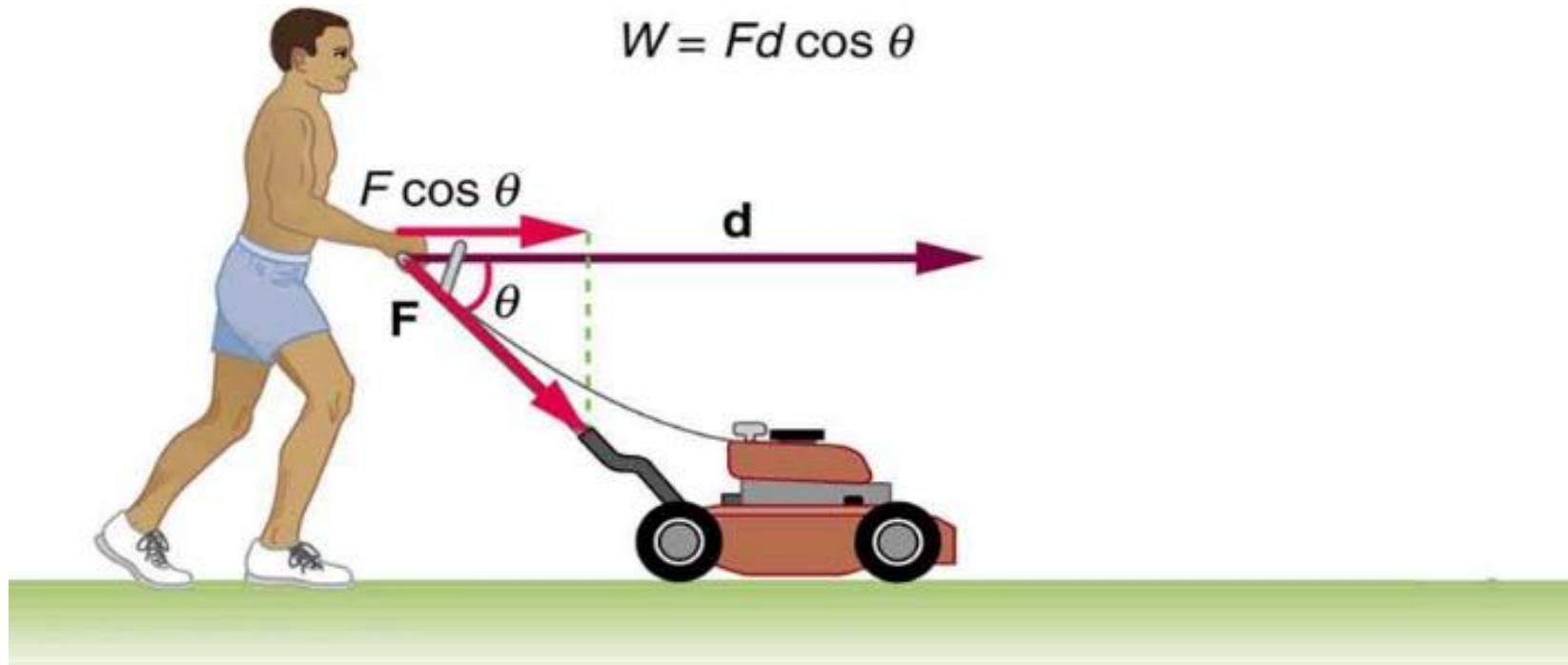
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An Orange at Rest. It has Matter and Mass



**MOVING AN ORANGE AT REST REQUIRES A FORCE –
NEWTON'S 2ND LAW**

NEWTON'S 2ND LAW - $F = ma$

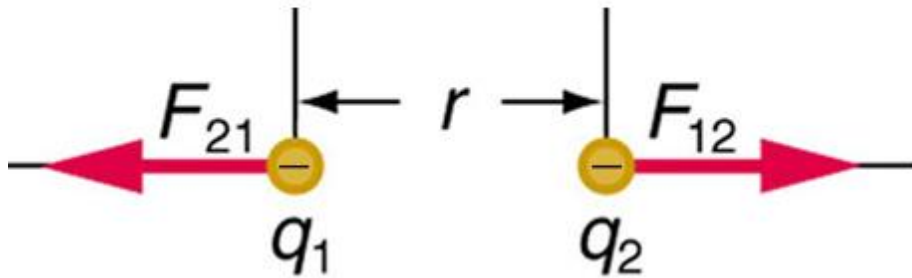


A PUSH OR A PULL IS CALLED A FORCE

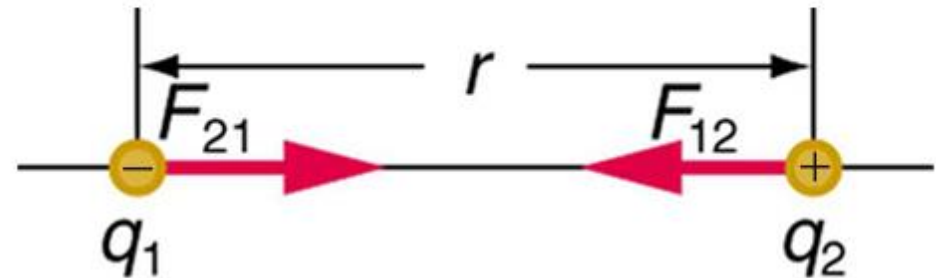
Newton's 3rd Law

For every action there exists is an equal and opposite reaction, also known as the **action/reaction law**. $\rightarrow\rightarrow\rightarrow\leftarrow\leftarrow\leftarrow$

(a)



(b)



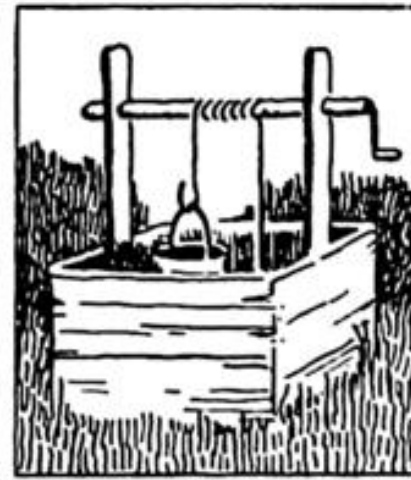
WITH THESE LAWS,
MAN LEARNED TO
CREATE TOOLS TO DO
GREATER
WORKS

A tool is:

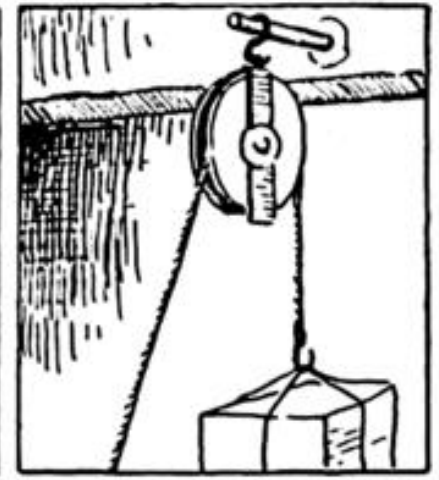
a mechanical device
that changes the
direction or
magnitude of a force



Lever



Wheel and axle



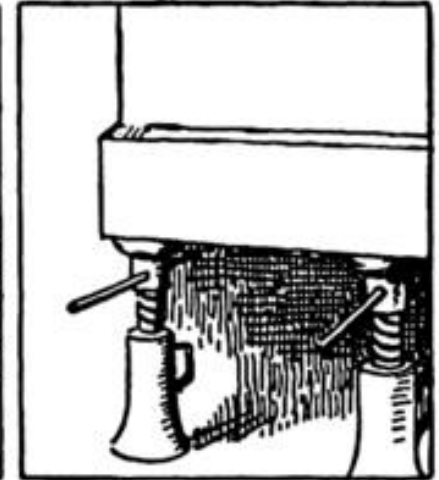
Pulley



Inclined plane



Wedge



Screw

REMEMBER THESE THINGS



WORK (hands):

COL 3:23 Whatever you do, work heartily as unto the Lord, not unto man.

There's nothing more liberating than working unto the Lord.

Genuine joy fills a believer whose work is dedicated to God, not man.