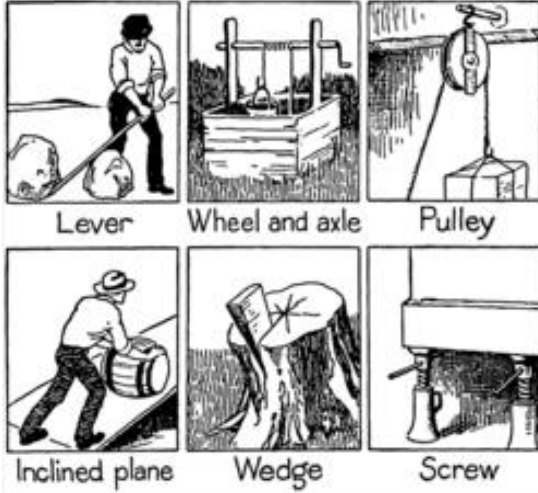


SIMPLE MACHINES (TOOLS)

We are God's workmanship, designed to leverage His gifts, our talents, and hard work.



1. What examples of simple machines can you add to this list (left):

MANY POSSIBLE ANSWERS – tongs, screwdriver, hammer, axe, ramps, handles, wrench, shovel

2. Define Force mathematically: $F = ma$

What does each letter represent? $F =$ Force

$m =$ mass $a =$ acceleration

3. Define Work mathematically: $W = Fd$

What does each letter represent? $W =$ Work

$F =$ Force $d =$ distance

4. What are Newton's Three Laws of Motion (abbreviated is great)?

1st Law: An object at rest remains at rest, an object in motion remains in motion unless a force acts upon it. Abbreviated: Status Quo or Law of Inertia

2nd Law: Force equals mass x acceleration. Abbreviated: $F = ma$

3rd Law: For every force/action there is an equal but opposite force/action.

Abbreviated: $\rightarrow \leftarrow$ equal but opposite forces

3. What is a "Newton" of force? It is a unit (of force) = to 1 kgm/s^2

4. What two abilities can assist us work more productively? **Answers may vary:** **INGENUITY** or intelligence and creativity; **AND** the ability to **LEVERAGE** knowledge/resources

5. Why did Adam and Eve have to work the land, battle weeds, and struggle to survive?

The FALL, Sin, Disobedience These were a consequence of their rebellion and expulsion from the Garden of Eden.