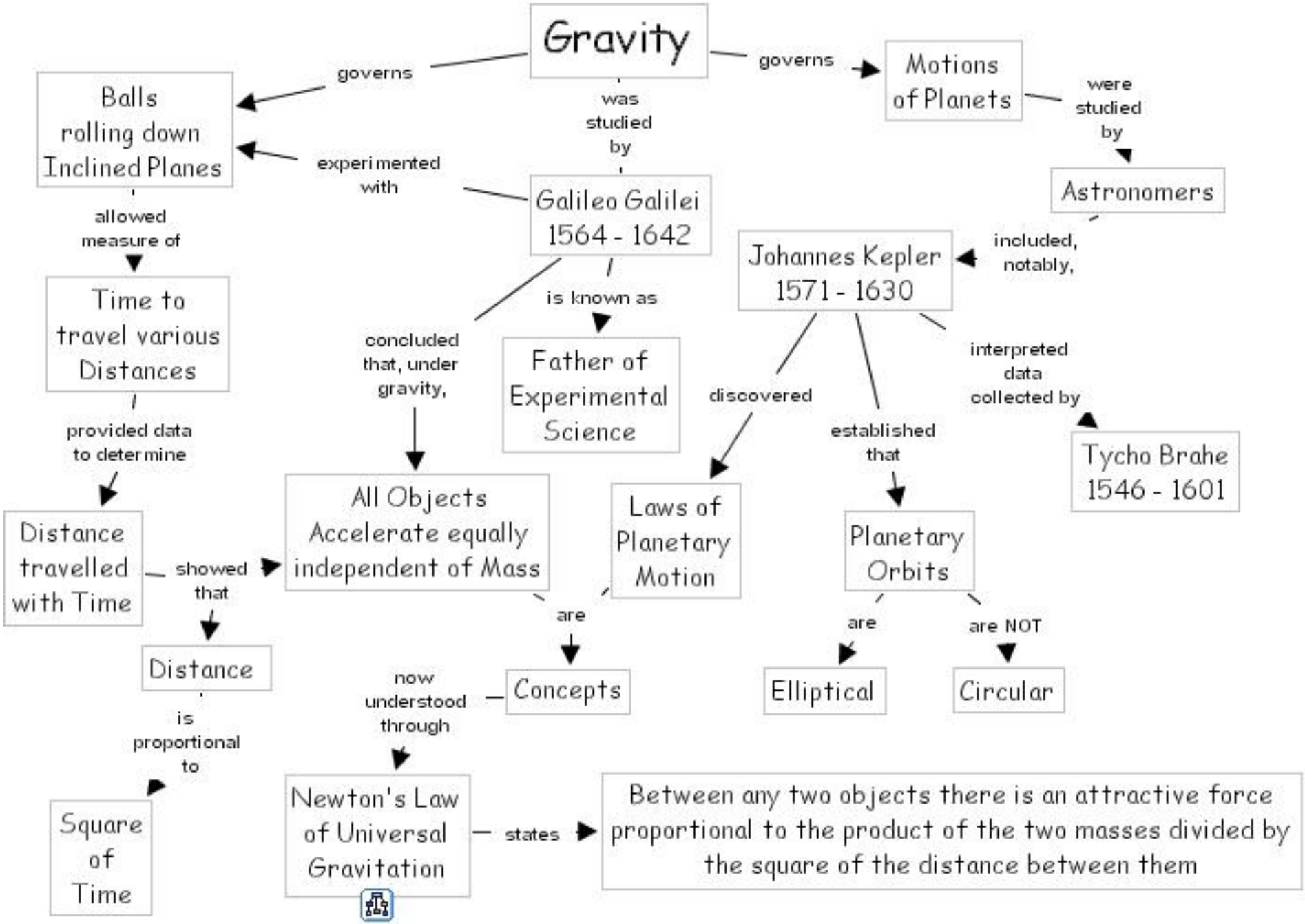
Gravity
governs
Balls rolling down Inclined Planes
governs
Motions of Planets
was studied by
were studied by
Astronomers
experimented with
Galileo Galilei 1564 - 1642
allowed measure of
Time to travel various Distances
included, notably,
Johannes Kepler 1571 - 1630
is known as
Father of Experimental Science
concluded that, under gravity,
discovered
established that
interpreted data collected by
Tycho Brahe 1546 - 1601
provided data to determine
Distance travelled with Time
showed that
All Objects Accelerate equally independent of Mass
Laws of Planetary Motion
Planetary Orbits
are
are
are NOT
Distance
Concepts
Elliptical
Circular
now understood through
is proportional to
Square of Time
Newton's Law of Universal Gravitation
states
Between any two objects there is an attractive force proportional to the product of the two masses divided by the square of the distance between them