## INDUCTIVE TABLE OF ASTRONOMY.

THE EARTH ap- pears to be im- moveable.	be im- their relative bright part is of ECLIPSES occur		THE SUN AND MOON often oc- cur. Chald <sup>ns</sup> . The Greeks. The		THE PLANETS are morning and even- ing Stars: are direct, stationary, and retrograde. Chaldeans. The Planets have pro- per motions and certain <i>Cycles</i> .		THE SUN rises, culminates, and sets in different times and places at dif- ferent seasons: different CONSTELLA- TIONS are visible at night. Pythagoras. The Sun appears to move annually in an <i>Ecliptic</i> oblique to the diurnal motion.		The places of	THE TIDES ebb and flow.			
in and a second of									Stars are deter- mined by their LONGITUDE mea- sured from the Equinox.		<ul> <li>Bays and Colores of Colores and Colores a</li></ul>		
The forms and dist <sup>5</sup> . of known parts of the earth are such as fit a convex surface.	ist <sup>5</sup> . of known of the Heavens of the Earth's arts of the earth rises or drops Shadow is al- re such as fit a as we travel N. ways circular.			By observations of Eclipses, the Moon's Nodes and Apogee revolve, and her motion is unequal according to certain laws.		By observations of the Planets, their progressions, stations, retro- gradations.		By observations of the Sun, his mo- tion is unequal according to certain laws.		By observations, Longitudes of Stars increase.	By observations, the Tides depend on the Moon and Sun.		The second secon
Aristotle? The Earth is a Globe, about which the sphere of the Heavens performs a Diurnal Revolution.				Hipparchus. The Moon appears to move in an <i>Epicycle</i> carried by a Deferent: the <i>Velocity of Apogee</i> and <i>Nodes</i> determined.		<b>Eudoxus.</b> The Planets appear to move in Epicycles carried by <i>De</i> - <i>ferents</i> .		Hipparchus. The Sun appears to move in an <i>Eccentric</i> , his <i>Apogee</i> being fixed.		Hippar. There is a Precession of the Equinoxes.	in Link in polation	hitof. 1990 Inknist ateres - Swant off.	News Rate Rate Rate and American Ameri American American
By the nature of motion, the apparent motion is the same whether the Heavens or the Earth have a diurnal revolution : the latter is simpler.				By additional observations, the Moon's motion has another inequality. Evection.		<ul> <li>nets' motions in their Epicycles are unequal according to certain laws.</li> <li>Ptolemy. The Planets appear to move in Epicycles carried by Eccentrics.</li> <li>By the nature of motion, the apparent motion is the same if the Planets revolve about the Sun: this is simpler.</li> </ul>		By additional obse Apogee moves.	by additional observations, the Sun's Apogee moves. Albategnius.		edinancial projection	They of a second	to fi and a sum to fi
				Ptolemy. The Moon appears to move in an <i>Epicycle</i> carried by an <i>Eccentric</i> .				Some Mercals and Plate as atlended doub		intering parts	the period	and a provide the second	
								• By the nature of motion, the apparent motion of the Sun is the same if the Earth revolve round the Sun: this is simpler.		and a straight a	And Andrews (1997)	<ul> <li>Pien of parts</li> <li>S. 1</li> <li>S. 1<td></td></li></ul>	
* Copernicus. The to the Ecliptic in	he Earth and Plan n a constant positio	ets revolve about on, and the Moon	the Sun as a cent revolves about the	er in Orbits nearly e Earth. The <i>He</i>	circular. The Eau liocentric Theory go	th revolves about in verns subsequent spe	ts axis inclined culations.			manag ja mining	Cost of Linne and	and a second second	
entime.			Retaining Moon's Eccentric and Epi- cycle; By additional observations, the Moon's motion has other inequalities.		Retaining but referring to the Sun as Epicycles and Eccentrics and the A		center the Planets' Annual Orbit ; Retaining obs <sup>ns</sup> . Earth's Aphelion revolves.		Construction of C	Light an base the propagation	Parameter of	and the second s	
i maga tes aga ma Vi selancan selance garan t					Variation; Unequal Change of Inclina-	By calc <sup>ns</sup> . of the periodic times and distances.	By additional ob- servations and calculations.	By additional ob- servations and calculations.	Planets' Aphelia revolve. Jupiter and Sa- turn's motions	of mer sa	indulation of Anna Anna Anna Anna Anna Anna Anna Ann	The WEIGHT of bodies dimin <sup>s</sup> . in going towards the Equator.	THE SATELLITES of Jupiter and Saturn revolve according to Kepler's Laws.
raine' mainth orthogram	nin i ne ende i Sin Plane Se Martin Plane Se	tonno e la	1	Horrox. The M Halley. Ellipse and eccentricity.	oon moves in an with variable axis	tances cubed are	Kepler. Areas described by Pla- nets are as times.	Kepler. Curves described by Pla- nets are ellipses.	have an inequa- lity dep <sup>g</sup> . on their mutual positions.		Long of A	Newton. Earth is oblate.	Pais boundaries politication in the second s
				* By Mechanics.	* By Mechanics.	By Mechanics.	* By Mechanics.	* By Mechanics.	* By Mechanics.	* By Mechanics.	* By Mechanics.	* By Mechanics.	* By Mechanics.
		ets are der Ane		* Newton. Moon is attracted by the Earth. Fall of heavy bo- dies.	* Newton. Moon's inequalities pro- duced by attrac- tion of Sun.		Newton. Pla- nets are attracted by the Sun.	* Newton. Sun attracts Planets invers. as square of distance.	* Newton. These inequalities are produced by mu- tual attraction of the Planets.	Precession of E- quinoxes is pro- duced by attrac- tion of Moon and Sun on oblate Earth.	Tides are pro- duced by attrac- tion of Moon and Sun on Sea. Explanation imperfect.	Diminution of gravity and ob- lateness of Earth arise from attrac- tion of parts.	* Newton. Jupiter and Saturn attract their Satellites inversely as the square of the distance, and the Sun attracts Planets and Satellites alike.
Jepaka sama tang Pepaka sama tang	allis in the <b>Earth</b> back	Soles in the month	naga maandi hirine har i digan hiradh	Newton. Earth attracts Moon invers. as square	Newton. Earth attracts Moon invers. as square		Newton. Sun attracts Planets inversely as the square of the distance. Newton. Pla- nets attract each other.				* Newton. Moon and Sun attract the Ocean.	* Newton. Parts of the Earth at- tract each other.	France France Light in the
				of distance.		Newton. All parts of the Earth, Sun, Moon, and Planets attract each of				ther with Forces in	versely as the squar	res of the distances.	
Newton. THE THEORY OF UNIVERSAL GRAVITATION. (All bodies attract each other with a Force of Gravity which is inversely as the squares of the di									squares of the dista	nces.)			

## (At the end of Chap. 6, Book XI. to face p. 282, Vol. 11.)

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