

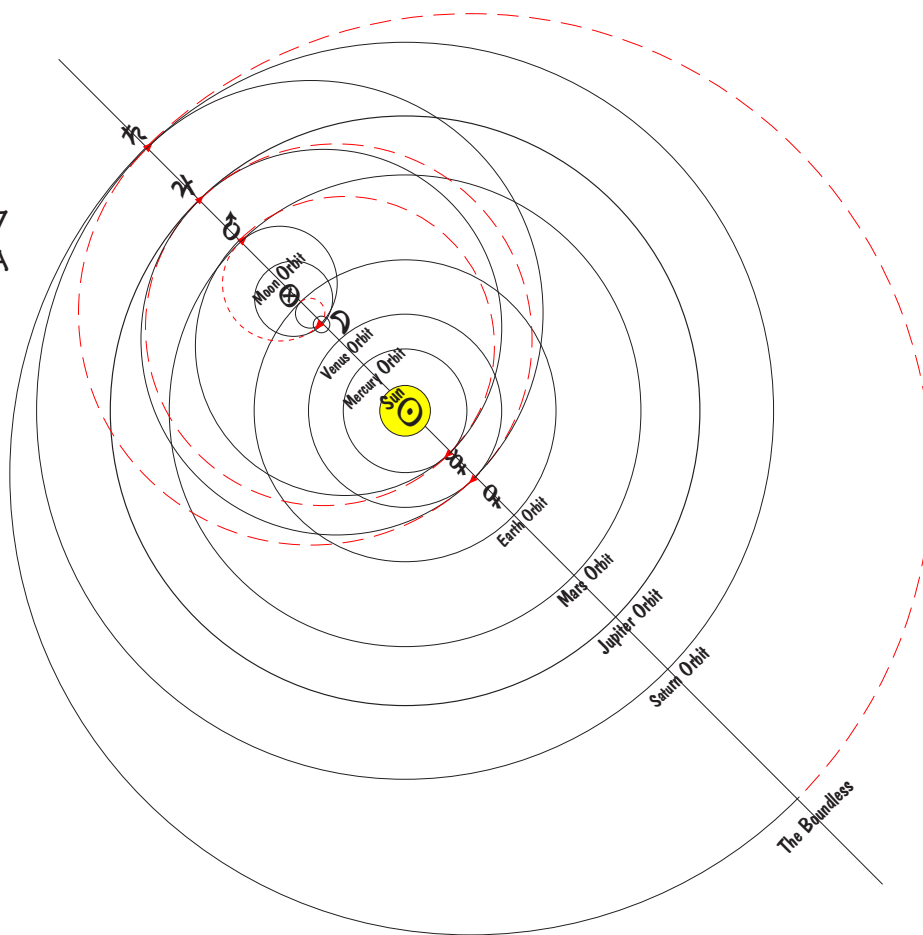
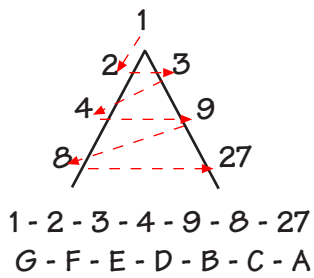
Circulation of the Cosmos, the Pythagorean Progression, and the Vedic Scale

This diagram is adapted from the book *Mathematics of the Cosmic Mind* by L. Gordon Plummer; “The Greater and Lesser Perfect Systems,” a website on *Greek Esoteric Music Theory* by John Opsopaus; and Alain Danielou’s book, *Music and the Power of Sound, the Influence of Tuning and Interval on Consciousness*.

On the diagram, if you start at the lower right and read thru the orbits from lower right to upper left (using earth’s orbit for the Sun); the orbits from Saturn inward are: Saturn orbit(♄), Jupiter orbit(♃), Mars orbit(♂), Sun-earth orbit(☉), Mercury orbit(☿), Venus orbit(♀), Moon orbit(☾). Using the same planetary order but inserting the note assignment of the planets from Greek Esoteric Music Theory, the notes are Saturn (G), Jupiter (F), Mars (E), Sun (D), Mercury (B), Venus (C), Moon (A). This sequence of notes, **G, F, E, D, B, C, A** is a musical manifestation of a deep mathematical and cosmological truth.

To quote from Danielou’s chapter on the Music of the Greeks: “The Theory of the Scale. The Pythagorean theory can be very briefly expressed as follows; ‘the demiurge had divided the composition [of the soul of the world] into seven parts, which relate to one another like the terms of two geometrical progressions, one of ratio **2**, (1, 2, 4, 8) and the second ratio **3**, (1, 3, 9, 27). With the help of these two progressions, the demiurge has formed a single progression [of] 1, 2, 3, 4, 9, 8, 27.’

“This Pythagorean progression, with its characteristic inversion of the fifth and sixth numbers, is to be found in every traditional system and is, for example, the basis of the scale on which the Samaveda is sung, a scale that in much more ancient times showed the same inversion. This ancient vedic scale in modern notation would be: Pa(G) ma(F) Ga(E) Re(D) Ni(B) Sa(C) Dha(A). The numbers representing these notes would correspond to those of the Pythagorean progression” (Alain Danielou, *Music and the Power of Sound*, p. 97).



Saturn	G	Pa
Jupiter	F	ma
Mars	E	Ga
Sun	D	Re
Mercury	B	Ni
Venus	C	Sa
Moon	A	Dha

Follow the red line from the earth (♁) outward for the days of the week and the musical cycle of 5ths (Earth and Sun are both note D)

Earth(♁) to Moon(☾) / Sunday to Monday / Re (D) to Dha (A)
 Moon(☾) to Mars(♂) / Monday to Tuesday / Dha (A) to Ga (E)
 Mars(♂) to Mercury(☿) / Tuesday to Wednesday / Ga (E) to Ni (B)
 Mercury(☿) to Jupiter(♃) / Wednesday to Thursday / Ni (B) to ma (F)
 Jupiter(♃) to Venus(♀) / Thursday to Friday / ma (F) to Sa (C)
 Venus(♀) to Saturn(♄) / Friday to Saturday / Sa (C) to Pa (G)
 Saturn(♄) to Sunday(☉) / Pa (G) to Re (D)