

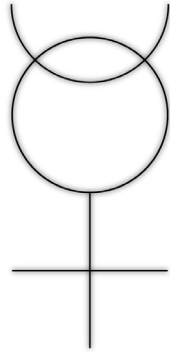
Musical Scales of the Solar System

What these charts are:

Each calculation in the scales below can be checked by using the Planetary Data Sheet, the Frequencies chart, or the mathematical notebooks at the end of the book. There at least 3 ways you can check them.

I have made errors putting the wrong note for a planet if even the interval was correct, or vice versa. Some are very simple to check or at least guess whether it is correct, then when you look up the note in regard to a specific body you realize they can change notes depending on which planet is the root (or the 'key') in that particular case.

Mercury



Measured Frequency by Solar Day Length	6.578343 x 10⁻⁸ Hz
Measured Frequency by Year Length	1.315 x 10⁻⁷ Hz
Transposed Frequency by Solar Day Length	282.5369 Hz
Transposed Frequency by Year Length	565.0931 Hz
Measured Orbit to Spin Resonance	2 : 1
Transposed Orbit to Spin Resonance in O ₂	2 : 1
Closest Note by Solar Day Length	D flat 4- 277.18 Hz
Closest Note by Year Length	D flat 5- 554.37 Hz
Closest Interval by Orbit to Spin Resonance	Octave Unison - 2 : 1

These are notes in the Scales of Mercury if Db is the key.

Scale and Intervals of Mercury by **Solar Day Length**

Db (Mercury)- **F#** (Mars) - **Ab** (Venus & our Moon)
 Root - Perfect 4th - Perfect 5th

Scale and Intervals of Mercury by **Year Length**

Db (+Pluto)- **Ab** (Nept+Moon) - **Bb** (Ceres) - **B** (Eris)
 Root - Perfect 5th - Major 6th - Minor 7th

Notes usable for Chords of Mercury by **Solar Day Length**

Db (+Neptune) - **F#** (Mars + Earth) - **G** (Eris)
 - **Ab** (Venus & our Moon) - **A** (Saturn) - **Bb**
 (Jupiter + Pluto) - **B** (Ceres) - **C** (Uranus)

Chords of Mercury by **Solar Day Length**

F# Major or Minor (Mars) -

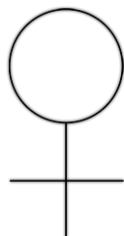
Notes usable for Chords of Mercury by **Year Length**

Db (+Mars+Pluto)- **D** (Saturn) - **F#** (Jupiter) -
Ab (Neptune + Uranus) - **A** (Venus) - **B** (Eris)
 - **C** (Earth)

Chords of Mercury by **Year Length**

D Major (Saturn) -
F# Minor (Jupiter) -

Venus



Measured Frequency by Solar Day Length **9.91355 × 10⁻⁸ Hz**
 Measured Frequency by Year Length **5.151 × 10⁻⁸ Hz**
 Transposed Frequency by Solar Day Length **425.7838848 Hz**
 Transposed Frequency by Year Length **442.469248 Hz**

Measured Orbit to Spin Resonance **1.92458 : 1**

Closest Note by Solar Day Length **A flat 4- 415.30 Hz**
 Closest Note by Year Length **A 4- 440 Hz**

These are notes in the Scales of Venus if Ab or A is the key.

Scale and Intervals of Venus by **Solar Day Length**

Venus	Ceres	Uranus	Mercury	Mars
Moon	1.42%			
Ab	- B	C	- Db	- F#
Root	- Minor 3	Major 3	- Perfect 4th	Minor 7

Scale and Intervals of Venus by **Year Length**

Venus	Ceres	Eris	Pluto	Saturn
Moon				
A	- Bb	- B	- Db	- D
Root	- Minor 2	- Major 2	Major 3	Perfect 4th

Jupiter	Uranus
F#	Ab
Major 6	Major 7
1.36%	

Notes usable for Chords of Venus by **Solar Day Length**

Ab (+Moon) - **A** (Saturn) - **Bb** (Jupiter + Pluto)
 - **B** (Ceres) - **C** (Uranus) - **Db** (Mercury + Neptune) - **F#** (Mars + Earth)

Chords of Venus by **Solar Day Length**

F# Major or Minor (Mars + Earth) -

Notes usable for Chords of Venus by **Year Length**

A (+Moon) - **Bb** (Ceres) - **B** (Eris) - **Db** (Mercury + Earth) - **D** (Saturn + Mars) - **F#** (Jupiter) - **Ab** (Uranus + Sun + Neptune)

Chords of Venus by **Year Length**

F# Major or Minor (Jupiter) -
D Major (Saturn + Mars) -
B Minor (Eris) -

Moon



Measured Frequency by Solar Day & Year Length **3.91942 × 10⁻⁷ Hz**

Transposed Frequency by Solar Day & Year Length **420.8454929 Hz**

Measured Orbit to Spin Resonance **1 : 1**

Transposed Orbit to Spin Resonance in O₂ **1 : 1**

Closest Note by Solar Day Length **A flat 4- 415.30 Hz**

Closest Interval by orbit-spin resonance **Root - 1.0000**

These are notes in the Scales of Moon if Ab is the key.

Scale and Intervals of *Moon* by **Solar Day Length**

Moon	Saturn	Jupiter	Mercury
Venus			
Ab	- A	- Bb	- Db
Root	Minor 2	Major 2	- Perfect 4th
Mars	Eris		
F#	G		
Minor 7	Major 7		

Scale and Intervals of *Moon* by **Year Length**

Moon	Venus	Ceres	Eris	Mercury
Neptune				Pluto
Ab	A	- Bb	B	Db
Root	Minor 2	Major 2	Minor 3	Perfect 4

Saturn

D

Tritone

Notes usable for Chords of *Moon* by **Solar Day Length**

Ab (+Venus) - **A** (Saturn) - **Bb** (Jupiter) - **B** (Pluto) - **C** (Uranus) - **Db** (Mercury) - **F#** (Mars)

Chords of *Moon* by **Solar Day Length**

F# Major or Minor (Mars) -

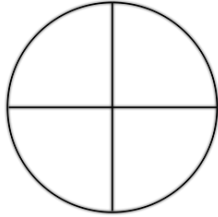
Notes usable for Chords of *Moon* by **Year Length**

Ab (+ Neptune + Uranus) - **A** (Venus) - **Bb** (Ceres) - **B** (Eris) - **Db** (Mercury + Pluto) - **D** (Saturn + Mars) - **F#** (Jupiter)

Chords of *Moon* by **Year Length**

D Major (Saturn + Mars) -
B Minor (Eris) -
F# Major or Minor (Jupiter) -

Earth



Measured Frequency by Solar Day Length	1.157407 x 10⁻⁵ Hz
Measured Frequency by Year Length	3.168876 x 10⁻⁸ Hz
Transposed Frequency by Solar Day Length	388.36148 Hz
Transposed Frequency by Year Length	272.2044 Hz
Measured Orbit to Spin Resonance	365.2422 : 1
Transposed Orbit to Spin Resonance in O ₂	1.426727 : 1
Closest Note by Solar Day Length	G4- 392 Hz
Closest Note by Year Length	D flat 4- 277.18 Hz
Closest Interval by orbit-spin resonance	Tritone - 1.4142

These are notes in the Scales of Earth if G or Db is the key.

Scale and Intervals of Earth by **Solar Day Length**

Earth	Saturn	Pluto	Ceres
Eris	1.23%		
G	- A	B	C
Root	Major 2	Major 3	- Perfect 4th
Neptune			
D			
Perfect 5th			

Scale and Intervals of Earth by **Year Length**

Earth	Mars	Jupiter
Db	- D	- F#
Root	- Minor 2	- Perfect 4th

Notes usable for Chords of Earth by **Solar Day Length**

G (+Eris) - **Ab** (Moon) - **A** (Saturn) - **Bb** (Jupiter) - **B** (Pluto) - **C** (Ceres) - **Db** (Mercury + Uranus) - **D** (Neptune)

Chords of Earth by **Solar Day Length**

G Major or Minor (Earth) -

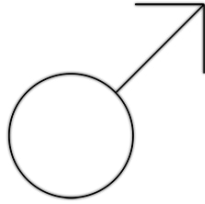
Notes usable for Chords of Earth by **Year Length**

Db (Earth) - **D** (Mars + Saturn + Pluto + Mercury) **F#** (Jupiter) - **Ab** (Uranus) - **A** (Venus)

Chords of Earth by **Year Length**

F# Minor (Jupiter) -
D Major (Mars + Saturn + Pluto + Mercury) -

Mars



Measured Frequency by Solar Day Length	1.126444 x 10⁻⁵ Hz
Measured Frequency by Year Length	1.684793 x 10⁻⁸ Hz
Transposed Frequency by Solar Day Length	377.971976 Hz
Transposed Frequency by Year Length	289.44526 Hz
Measured Orbit to Spin Resonance	667.50 : 1
Transposed in O ₂ Orbit to Spin Resonance	1.30371 : 1
Closest Note by Solar Day Length	F#4- 369.99 Hz
Closest Note by Year Length	D4- 293.66 Hz
Closest Interval in O ₂ by orbit-spin resonance	Perfect 4th- 1.3348

These are notes in the Scales of Mars if F# or D is the key.

Scale and Intervals of Mars by **Solar Day Length**

Mars	Venus	Mercury
	Moon	
F#	- Ab	Db
Root	- Major 2	Perfect 5th

Scale and Intervals of Mars by **Year Length**

Mars	Jupiter	Earth
D	- F#	- Db
Root	- Major 3rd	Major 7th

Notes usable for Chords of Mars by **Solar Day Length**

F# (Mars + Earth) - **G** (Eris) -
Ab (Venus + Moon) - **A** (Saturn)-
Bb (Jupiter + Pluto) - **B** (Ceres) - **C** (Uranus) -
Db (Mercury + Neptune)

Chords of Mars by **Solar Day Length**

F# Major or Minor (Mars + Earth) -

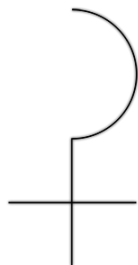
Notes usable for Chords of Mars by **Year Length**

D (Mars + Saturn) - **F#** (Jupiter) -
Ab (Uranus) - **A** (Venus + Neptune) - **B** (Eris)
- **Db** (Earth)

Chords of Mars by **Year Length**

D Major (Mars + Saturn) -
F# Minor (Jupiter) -
B Minor (Eris) -

Ceres



Measured Frequency by Solar Day Length	3.061111 x 10⁻⁵ Hz
Measured Frequency by Year Length	6.8888277 x 10⁻⁹ Hz
Transposed Frequency by Solar Day Length	513.5698 Hz
Transposed Frequency by Year Length	472.98068 Hz
Measured Orbit to Spin Resonance	4447.48 : 1
Transposed in O ₂ Orbit to Spin Resonance	1.08581 : 1
Closest Note by Solar Day Length	C5- 523.25 Hz
Closest Note by Year Length	Bb4- 466.16 Hz
Closest Interval in O ₂ N ₁₂ by orbit-spin resonance	Minor 2nd- 1.05946

These are notes in the Scales of Ceres if C or Bb is the key.

Scale and Intervals of Ceres by **Solar Day Length**

Ceres	Uranus	Neptune	Earth	Pluto
C	- Db	- D	- G	B
Root	- Minor 2	Major 2	Perfect 5th	Major 7

Scale and Intervals of Ceres by **Year Length**

Ceres	Eris	Mercury	Saturn	Neptune	Venus
		Pluto		Moon	
Bb	- B	- Db	- D	- Ab	- A
Root	- Minor 2	Minor 3	Major 3	Min 7	Maj 7

Notes usable for Chords of Ceres by **Solar Day Length**

C (Ceres) - **Db** (Uranus)- **D** (Neptune) -
G (Earth) - **Ab** (+Moon) - **A** (Saturn) - **Bb**
(Jupiter) - **B** (Pluto)

Chords of Ceres by **Solar Day Length**

G Major or Minor (Earth + Mars) -

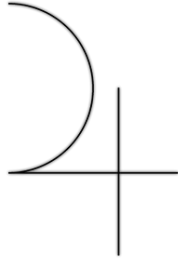
Notes usable for Chords of Ceres by **Year Length**

Bb - **B** (Eris) - **Db** (Earth) - **D** (Mars) -
Ab (Uranus) - **A** (Venus + Neptune)

Chords of Ceres by **Year Length**

no minor or major chords

Jupiter



Measured Frequency by Solar Day Length	2.7985 x 10⁻⁵ Hz
Measured Frequency by Year Length	2.672629 x 10⁻⁹ Hz
Transposed Frequency by Solar Day Length	469.5119 Hz
Transposed Frequency by Year Length	367.32334 Hz
Measured Orbit to Spin Resonance	10,471 : 1
Transposed in O ₂ Orbit to Spin Resonance	1.278198 : 1
Closest Note by Solar Day Length	B-flat 4- 466.16 Hz
Closest Note by Year Length	F sharp 4- 369.99 Hz
Closest Interval in O ₂ N ₁₂ by orbit-spin resonance	Major 3rd - 1.25992

These are notes in the Scales of Jupiter if Bb or F# is the key.

Scale and Intervals of *Jupiter* by **Solar Day Length**

Jupiter	Mars	Eris	Moon	Saturn
Bb	^{1.427 %} F#	G	Ab	A
Root	Minor 6	Major 6	Minor 7	Major 7

Scale and Intervals of *Jupiter* by **Year Length**

Jupiter	Venus	Earth	Mars
F#	A	^{1.29 %} Db	^{1.0937 %} D
Root	Minor 3	Perfect 5	Minor 6

Notes usable for Chords of *Jupiter* by **Solar Day Length**

Bb - **B** (Pluto) - **Db** (Mercury + Uranus) -
D (Neptune) - **F#** (Mars) - **G** (Eris + Earth) -
Ab (Venus) - **A** (Saturn)

Chords of *Jupiter* by **Solar Day Length**

F# Major or Minor (Mars) -
G Major or Minor (Eris + Earth) -
D Major (Neptune) -
B Minor (Pluto)
Bb augmented (+)

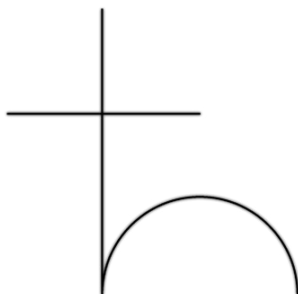
Notes usable for Chords of *Jupiter* by **Year Length**

F# (Jupiter) - **Ab** (Uranus) - **A** (Venus) -
B (Eris) - **Db** (Earth) - **D** (Mars + Saturn)

Chords of *Jupiter* by **Year Length**

D Major (Mars + Saturn) -
F# Minor (Jupiter) -
B Minor (Eris) -

Saturn



Measured Frequency by Solar Day Length	2.6305 x 10⁻⁵ Hz
Measured Frequency by Year Length	1.07696 x 10⁻⁹ Hz
Transposed Frequency by Solar Day Length	441.3199 Hz
Transposed Frequency by Year Length	296.0336 Hz
Measured Orbit to Spin Resonance	24,451.49 : 1
Transposed in O ₂ Orbit to Spin Resonance	1.490697 : 1
Closest Note by Solar Day Length	A4- 440.00 Hz
Closest Note by Year Length	D4- 293.66 Hz
Closest Interval in O ₂ N ₁₂ by orbit-spin resonance	Perfect 5th- 1.49831

These are notes in the Scales of Saturn if A or D is the key.

Scale and Intervals of Saturn by **Solar Day Length**

Saturn	Jupiter	Eris
A	-	Bb
Root	-	Minor 2
		Minor 7

Scale and Intervals of Saturn by **Year Length**

Saturn	Uranus Moon	Venus	Ceres
D	-	Ab	-
Root	-	Tritone	Perfect 5th
			Minor 6
Eris	Pluto		
B	Db		
Major 6	Major 7		

Notes usable for Chords of Saturn by **Solar Day Length**

A (Saturn) - **Bb** (Jupiter) - **B** (Pluto) -
C (Ceres) - **Db** (Mercury) - **D** (Neptune) -
G (Earth + Eris) - **Ab** (Venus + Moon)

Chords of Saturn by **Solar Day Length**

G Major or Minor (Earth + Eris) -

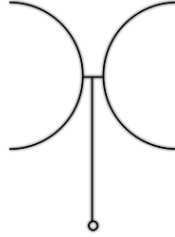
Notes usable for Chords of Saturn by **Year Length**

D (+) - **F#** (Jupiter) -
Ab (Uranus + Moon + Neptune) -
A (Venus) - **Bb** (Ceres) - **B** (Eris) -
Db (Pluto + Mercury)

Chords of Saturn by **Year Length**

D Major (Saturn) -
F# Major or Minor (Jupiter) -
B Minor (Eris) -

Uranus



Measured Frequency by Solar Day Length	1.611988 x 10⁻⁵ Hz
Measured Frequency by Year Length	3.783769 x 10⁻¹⁰ Hz
Transposed Frequency by Solar Day Length	540.8934 Hz
Transposed Frequency by Year Length	416.0304 Hz
Measured Orbit to Spin Resonance	42,602.7 : 1
Transposed in O ₂ Orbit to Spin Resonance	1.300131 : 1
Closest Note by Solar Day Length	D-flat 4- 554.37 Hz
Closest Note by Year Length	A-flat 4- 415.30 Hz
Closest Interval in O ₂ N ₁₂ by orbit-spin resonance	Perfect 4th- 1.3348

These are notes in the Scales of Uranus if Db or Ab is the key.

Scale and Intervals of Uranus by **Solar Day Length**

Uranus	Neptune	Mars 1.19 %	Venus	Pluto
Db	-	D	G	A
Root	-	Minor 2	Tritone	Minor 6
Ceres				Minor 7
C				
Major 7th				

Scale and Intervals of Uranus by **Year Length**

Uranus	Venus	Ceres 1.29 %	Eris	Pluto 1.21 %
Ab	-	A	-	Bb
Root	-	Minor 2	Major 2	Minor 3
				Perfect 4
Saturn	Jupiter			
D	F#			
Tritone	Minor 7th			

Notes usable for Chords of Uranus by **Solar Day Length**

Db - **D** (Mercury + Neptune) -
G (Mars + Earth) - **A** (Venus + Moon) -
B (Pluto) - **C** (Ceres)

Chords of Uranus by **Solar Day Length**

G Major (Mars + Earth) -

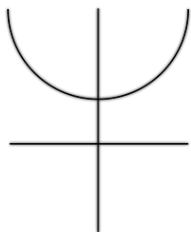
Notes usable for Chords of Uranus by **Year Length**

Ab (+ Neptune) - **A** (Venus) -
Bb (Ceres) - **B** (Eris) - **Db** (Pluto + Earth) -
D (Mars + Saturn) - **F#** (Jupiter)

Chords of Uranus by **Year Length**

D Major (Mars + Saturn) -
F# Major or Minor (Jupiter) -
B Minor (Eris) -

Neptune



Measured Frequency by Solar Day Length	1.7249 x 10-5 Hz
Measured Frequency by Year Length	1.9355 x 10-10 Hz
Transposed Frequency by Solar Day Length	289.39 Hz
Transposed Frequency by Year Length	212.8064 Hz
Measured Orbit to Spin Resonance	89,120.6 : 1
Transposed in O ₂ Orbit to Spin Resonance	1.3599 : 1
Closest Note by Solar Day Length	D 4- 293.66 Hz
Closest Note by Year Length	A-flat 4- 415.30 Hz
Closest Interval in O ₂ N ₁₂ by orbit-spin resonance	Perfect 4th- 1.3348

These are notes in the Scales of Neptune if F# or D is the

Scale and Intervals of Neptune by **Solar Day Length**

Neptune	Earth	Pluto	Ceres
D	-	G	B
Root	- Perfect 4	Major 6	Minor 7
Uranus			
Db			
Major 7th			

Scale and Intervals of Neptune by **Year Length**

Neptune	Ceres	Eris	Mercury
Moon		1.5%	Pluto
1.13%			
Ab	-	Bb	B
Root	- Major 2	Minor 3rd	Perfect 4
			Db

Notes usable for Chords of Neptune by **Solar Day Length**

D (+Mercury) - **G** (Earth) -**A** (Venus)-
Bb (Jupiter) - **B** (Pluto) -
C (Ceres) - **Db** (Uranus)

Chords of Neptune by **Solar Day Length**

G Major or Minor (Earth) -

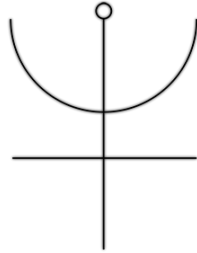
Notes usable for Chords of Neptune by **Year Length**

Ab (+ Moon) - **A** (Venus) - **Bb** (Ceres) -
B (Eris) -**Db** (Mercury + Pluto) -
D (Saturn)

Chords of Neptune by **Year Length**

*no major or minor chords
by year*

Pluto



Measured Frequency by Solar Day Length	1.8122 × 10-6 Hz
Measured Frequency by Year Length	1.27806 × 10-10 Hz
Transposed Frequency by Solar Day Length	486.44592 Hz
Transposed Frequency by Year Length	281.056 Hz
Measured Orbit to Spin Resonance	14,179.4 : 1
Transposed in O ₂ Orbit to Spin Resonance	1.73088 : 1
Closest Note by Solar Day Length	B 4- 493.88 Hz
Closest Note by Year Length	D-flat 4- 277.18 Hz
Closest Interval in O ₂ N ₁₂ by orbit-spin resonance	Major 6th - 1.68179

These are notes in the Scales of Pluto if B or Db is the key.

Scale and Intervals of *Pluto* by **Solar Day Length**

Pluto	Ceres	Uranus	Neptune	Earth
B	- C	Db	D	G
Root	- Minor 2	Major 2	Minor 3	Minor 6

Scale and Intervals of *Pluto* by **Year Length**

Pluto	Saturn	Moon	Venus	Ceres
Db	- D	- Ab	- A	Bb
Root	- Minor 2	Perfect 5th	Minor 6	Major 6

Eris
B
Minor 7

Notes usable for Chords of *Pluto* by **Solar Day Length**

B - **C** (Ceres) - **Db** (Uranus) -
D (Mercury + Neptune) - **G** (Earth) -
A (Saturn)

Chords of *Pluto* by **Solar Day Length**

G Major (Earth) -

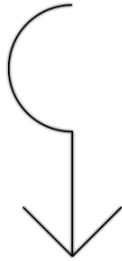
Notes usable for Chords of *Pluto* by **Year Length**

Db (+Mercury +Mars) - **D** (Saturn) -
F# (Jupiter) - **Ab** (Moon + Uranus + Neptune)
A (Venus) - **Bb** (Ceres) - **B** (Eris)

Chords of *Pluto* by **Year Length**

F# Major or Minor (Jupiter) -
D Major (Saturn) -
B Minor (Eris) -

Eris



Measured Frequency by Solar Day Length	7.3346 x 10-7 Hz
Measured Frequency by Year Length	5.6899 x 10-11 Hz
Transposed Frequency by Solar Day Length	393.776 Hz
Transposed Frequency by Year Length	250.24 Hz
Measured Orbit to Spin Resonance	12,940.17 : 1
Transposed in O ₂ Orbit to Spin Resonance	1.57961 : 1
Closest Note by Solar Day Length	G4- 392 Hz
Closest Note by Year Length	B 4- 246.94 Hz
Closest Interval in O ₂ N ₁₂ by orbit-spin resonance	Major 6 - 1.5874

These are notes in the Scales of Eris if G or B is the key.

Scale and Intervals of Eris by **Solar Day Length**

Eris	Moon	Saturn	Jupiter
G	- Ab	A	Bb
Root	- Minor 2	Major 2	Minor 3

Scale and Intervals of Eris by **Year Length**

Eris	Pluto	Saturn	Moon	Venus
B	- Db	- D	- Ab	A
Root	- Major 2	Minor 3	Major 6	Minor 7

Ceres

Bb
Major 7th

Notes usable for Chords of Eris by **Solar Day Length**

G (+Earth) - **Ab** (Venus + Moon) - **A** (Saturn)-
Bb (Jupiter) - **B** (Pluto) - **C** (Uranus) - **Db**
(Mercury) - **D** (Neptune) - **F#** (Mars)

Chords of Eris by **Solar Day Length**

G Major or Minor (Eris + Earth) -
F# Major or Minor (Mars) -

Notes usable for Chords of Eris by **Year Length**

B (Eris) - **C** (Earth) **Db** (Mercury + Pluto) -
D (Mars + Saturn) - **F#** (Jupiter) -
Ab (Moon + Uranus + Neptune) - **A** (Venus) -
Bb (Ceres) -

Chords of Eris by **Year Length**

D Major (Mars + Saturn) -
F# Major or Minor (Jupiter) -
B Minor (Eris) -