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## **Music And Mathematics From Pythagoras**

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PYTHAGORAS OF  
SAMOS Pythagoras of  
Samos (c.570-495 BCE)  
Biography - Who was  
Pythagoras It is  
sometimes claimed  
that we owe pure  
mathematics to  
Pythagoras, and he is  
often called the first  
"true" mathematician.  
But, although his  
contribution was  
clearly important, he  
nevertheless remains a  
controversial figure. He  
left no mathematical

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writings himself, and  
much of [...]

## **Pythagoras of Samos | Famous Mathematician**

Music theory has no  
axiomatic foundation in  
modern mathematics,  
although some  
interesting work has  
recently been done in  
this direction (see the  
External Links), yet the  
basis of musical sound  
can be described  
mathematically (in

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acoustics) and exhibits "a remarkable array of number properties". Elements of music such as its form, rhythm and metre, the pitches of its notes and the tempo of its ...

## **Music and mathematics - Wikipedia**

Mathematics & Music  
"There is geometry in the humming of the strings, there is music in the spacing of the

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spheres." —

Pythagoras. Counting,  
rhythm, scales,  
intervals, patterns,  
symbols, harmonies,  
time signatures,  
overtones, tone, pitch.

The notations of  
composers and sounds  
made by musicians are  
connected to  
mathematics. The next  
time you hear or play  
classical, rock, folk,  
religious ...



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Pythagoras of Samos (c. 570 – c. 495 BC) was an ancient Ionian Greek philosopher and the eponymous founder of Pythagoreanism. His political and religious teachings were well known in Magna Graecia and influenced the philosophies of Plato, Aristotle, and, through them, Western philosophy. Knowledge of his life is clouded by

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legend, but he appears  
to have been the son  
of Mnesarchus, a gem  
...

## **Pythagoras - Wikipedia**

Mathematics in music.  
And where  
Mathematics enters in  
music? It was observed  
that when a frequency  
is multiplied by 2, the  
note still the same. For  
example, the A (440  
Hz) multiplied by 2 =  
880 Hz is also an A, but

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just one octave above.  
If the goal was to lower  
one octave, it would be  
enough just dividing by  
2. We can conclude  
then, that a ...

## **Mathematics and Music - Study | Simplifying Theory**

Pythagoras was a  
Greek philosopher who  
made important  
developments in  
mathematics,  
astronomy, and the  
theory of music. The

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theorem now known as  
Pythagoras's theorem  
was known to the  
Babylonians 1000  
years earlier but he  
may have been the  
first to prove it.

## **Pythagoras (569 BC - 475 BC) - MacTutor History of Mathematics**

May 2005 The  
astronomer Galileo  
Galilei observed in  
1623 that the entire  
universe "is written in

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the language of mathematics", and indeed it is remarkable the extent to which science and society are governed by mathematical ideas. It is perhaps even more surprising that music, with all its passion and emotion, is also based upon mathematical relationships.

**The magical  
mathematics of  
music |**

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**plus.maths.org**

Pythagoras made huge contributions in the fields of astronomy, mathematics, philosophy, music and many other areas. He is considered the “father of philosophy,” and this can be seen through his teachings, his theories, and his philosophies. His impact on later philosophers such as Plato cannot be underestimated, and

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his influence was significant to the point that he could be seen as the ...

## **Top 11 Contributions of Pythagoras - Ancient History Lists**

He wasn't treated as a prisoner of war as we would consider it today. Instead, he continued his education in mathematics and music and delved into the teachings of the

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priests, learning their sacred rites. He became extremely proficient in his studies of mathematics and sciences as taught by the Babylonians. A Return Home Followed by Departure . Pythagoras eventually returned to Samos, then ...

## **Pythagoras of Samos Biography - ThoughtCo**

Pythagoras also related



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music to mathematics. He had long played the seven string lyre, and learned how harmonious the vibrating strings sounded when the lengths of the strings were proportional to whole numbers, such as 2:1, 3:2, 4:3. Pythagoreans also realized that this knowledge could be applied to other musical instruments.

The reports of

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Pythagoras' death are varied. He is said to have ...

**Biography of  
Pythagoras - math  
word definition -  
Math Open ...**

In mathematics,  
Pythagoras is  
commonly given credit  
for discovering what is  
now known as the  
Pythagorean Theorem  
(or Pythagoras'  
Theorem), a theorem  
in geometry that states

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that, in a right-angled triangle, the square of the hypotenuse (the side opposite the right angle) is equal to the sum of the squares of the other two sides. Although this had been known and utilized previously by the ...

## **Pythagoras > By Individual Philosopher > Philosophy**

Pythagoras of Samos was a famous Greek

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mathematician and philosopher (c. 570 – c. 495 BC). He is known best for the proof of the important Pythagorean theorem, which is about right triangles. He started a group of mathematicians, called the Pythagoreans, who worshiped numbers and lived like monks. He was an influence for Plato.. He had a great impact on mathematics, theory of

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**Pythagoras Facts for  
Kids**

music and astronomy.

Pythagoras' belief stemmed from his observations of mathematics, music and astronomy. For example, he noticed that vibrating strings produce harmonious tones only when the ratios between the lengths of the strings are whole numbers. He later realized that

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these ratios could be extended to other instruments.

## **Pythagoras Biography - Childhood, Life Achievements & Timeline**

Pythagoras, (born c. 570 bce, Samos, Ionia [Greece]—died c. 500–490 bce, Metapontum, Lucanium [Italy]), Greek philosopher, mathematician, and

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founder of the Pythagorean brotherhood that, although religious in nature, formulated principles that influenced the thought of Plato and Aristotle and contributed to the development of mathematics and Western rational philosophy.

**Pythagoras |  
Biography,  
Philosophy, & Facts |**

# Download Free Music And Mathematics From **Britannica**

To Pythagoras music was one of the dependencies of the divine science of mathematics, and its harmonies were inflexibly controlled by mathematical proportions. The Pythagoreans averred that mathematics demonstrated the exact method by which the good established and maintained its universe. Number



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therefore preceded  
harmony, since it was  
the immutable law that  
governs all harmonic  
proportions ...

## **The Pythagorean Theory of Music and Color**

He is not ascribing  
rigorous mathematics  
with proofs to  
Pythagoras but rather  
says that Pythagoras  
was “likening all things  
to numbers”. This is  
consistent with the

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moralized cosmos of  
Pythagoras sketched  
above in which  
numbers have  
symbolic significance.  
The second important  
passage is Plato's pupil  
Xenocrates' assertion  
that Pythagoras  
"discovered that the  
intervals in music, too  
...

**Pythagoras  
(Stanford  
Encyclopedia of  
Philosophy)**

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Pythagoras (c. 570—c. 495 B.C.E)... Now the function of the Limit is usually illustrated from the arts of music and medicine, and we have seen how important these two arts were for Pythagoreans, so it is natural to infer that the key to its meaning is to be found in them. It may be taken as certain that Pythagoras himself discovered the numerical ratios which determine the

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concordant ...

Pythagoras To

**Pythagoras |  
Internet**

**Encyclopedia of  
Philosophy**

A 'math metal' song  
about the golden ratio  
(aka Phi). More links &  
stuff in full description  
below ↓ ↓ ↓ See more  
about the making of  
the song and maths  
behind...

**Golden Ratio Song -  
Numberphile -**

# Download Free Music And Mathematics From **YouTube**

Pythagoras dari Samos (lahir sekitar tahun 570 SM - meninggal sekitar tahun 495 SM) adalah seorang filsuf Yunani Ionia kuno dan perintis aliran pythagoreanism e. Ajaran politik dan keagamaannya dikenal di kawasan Magna Graecia pada masanya dan telah memengaruhi pemikiran Plato dan Aristoteles, sehingga secara tidak langsung

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ia juga telah  
berdampak terhadap  
perkembangan filsafat  
Barat.

## **Pythagoras - Wikipedia bahasa Indonesia, ensiklopedia bebas**

Pythagoras was taught  
mathematics by  
Thales, who brought  
mathematics to the  
Greeks from Ancient  
Egypt, and by  
Anaximander, who was  
an earlier student of

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Thales. Thales advised  
Pythagoras to visit  
Egypt, which he did  
when he was about 22  
years old. Pythagoras  
must have liked Egypt.  
He lived there for  
about the next 22  
years of his life,  
mastering  
mathematical ideas  
AND spiritual ideas ...

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