# Sources

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## Resources

http://www.sciences360.com/index.php/the-importance-of-zero-in-mathematics-2-25101/

A website on The Importance of zero in Mathematics

https://www.khanacademy.org/math/pre-algebra/order-of-operations/arithmetic\_properties/v/identity-property-of-0

A instruction video describing the identity property of zero

http://www.youtube.com/watch?v=elvOZm0d4H0

A video describing why infinity is bigger than you think

http://www.youtube.com/watch?v=XVNSloR7sZg

A video explaining a proof that 1=0

http://yaleglobal.yale.edu/about/zero.jsp

A website on how zero was discovered.

G:\Math 5010 capstone, math, statistics, and technology\books and web links for web page project\zero.htm

A very thorough website describing the life of the number zero. This website contains a huge section containing further references

Zero on Vimeo files

I need to find the link for this video again but it is a movie about the life of zero if it was alive. It's kind of funny but creepy at the same time. The beginning and end was the best part.

http://www.bbc.co.uk/radio4/science/5numbers1.shtml

 Singh, Simon. "5 numbers - zero." BBC. March 11, 2002. This is a BBC. video that looks at 5 very important numbers.

http://www.straightdope.com/columns/read/1633/is-zero-a-number

 This is a very simplistic website designed to illuminate why zero is a number.

http://mathforum.org/dr.math/faq/faq.divideby0.html

This is a math forum called Ask Dr. Math. specifically talking about the properties about zero related to dividing by zero.

http://mathworld.wolfram.com/NaturalNumber.html

This is a great website that talks specifically of the natural number zero, its history and it itself as a concept.

http://www2.ari.net/home/odenwald/anthol/decay.html

This website is about the decay of the false vacume, an idea linked to the concept of zero

http://www.treasure-troves.com/astro/astro0.html

This website is all things astronomy, which relates to zero in understanding the historical question about whether or not zero exists in nature

http://history.math.csusb.edu/

This is a huge archive of the history of mathematics including pictures

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A table of rules for zero

http://www.rapidtables.com/math/number/zero-number.htm

 A debate over zero being even or odd

<http://www.debate.org/debates/Zero-is-an-even-not-odd-number./1/>

This is a great overview of zero.

http://home.ubalt.edu/ntsbarsh/zero/zero.htm

This includes a video, lesson, and worksheet that can show why any number with zero as an exponent is 1.

http://www.homeschoolmath.net/teaching/zero-exponent-proof.php

Applets

Explanation of why operations of zero are so strange

http://mathforum.org/library/drmath/view/55764.html

 http://www.ixl.com/math/algebra-1/number-lines

 This Applet can be used to show how zero has a place in the number.

 http://gwydir.demon.co.uk/jo/numbers/babylon/index.htm#count

 This applets provides a chance for students to play with a numeric system without Zero as we know it today.

 http://mathinsight.org/applet/zero\_to\_power\_of\_zero\_undefined

 This applet lets you play with the properties of zero, focusing on zero to the power of zero.