

# Do Vampires Really Exist?



Use Mathematical Modeling to learn if vampires really exist!!!

## Assumptions;

- *One vampire does exist.*
- That vampire must suck **one** person's blood each week to survive.
- Once a person is bitten by a vampire, he or she becomes a vampire.

## Procedure:

- Open up a spreadsheet (MS Excel, Numbers, Google sheets...) and create a 3 column table with the titles "Week", "Number of People Infected" and "Total Number of Vampires".

Week	Number of People Infected	Total Number of Vampires
0	0	1
1	1	2 (1 for the existed + 1 from the infected newly become vampire)
2	2	4 (2 + 2)

- Open up "[The World Counts Website](#)" to learn about the world's population.

## Follow-up Questions:

1. If there were 8 vampires at the end of week 3, how many people would get bitten in Week 4? And how many vampires would that make total?
2. How many people would those vampires bite in Week 5, resulting in how many total vampires at that week?
3. You get the idea now. Carry the pattern through to the end of Week 8. How many bloodsuckers do you end up with?
4. Using Chart Wizard, select a type of chart that shows data over time.
5. How many vamps are there at the end of Week 35? So how does your vampire count match up against the actual world population? According to your mathematical model, how many of the world's people are actually vampires? Could this possibly be true? So, answer the question:

## Do vampires really exist?

Resource:

[https://www.educationworld.com/a\\_lesson\\_vampirelesson\\_do\\_vampires\\_really\\_exist.shtml](https://www.educationworld.com/a_lesson_vampirelesson_do_vampires_really_exist.shtml)  
<https://www.stem.org.uk/resources/elibrary/resource/36093/do-vampires-exist>

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