

Mini Math Minecraft: Prime Vs. Composite

Objective:

Understanding the difference between prime and composite numbers

What makes a number prime?

What do numbers that are composite have in common?

Lesson:

1. Introduce this lesson by having students create a 4 x4 array in Minecraft. Discuss how many blocks are in the array. (16) Ask students to create arrays for the following numbers: 9, 14, 21, 24
2. Discuss what all of these numbers have in common.
3. Have students try to create arrays for 11 and 17. Students should realize that it is impossible to create arrays for these numbers.
4. Discuss the difference between prime and composite numbers.
5. Have students work on Mini Math Minecraft: Prime Vs. Composite Task
6. Share and discuss how to identify prime and composite numbers.

Outcome:

This lesson is to spark discussion and have the students demonstrate their knowledge of prime and composite numbers.

Additional Resources

<https://www.mathsisfun.com/prime-composite-number.html>

Mini Math Minecraft: Prime Vs. Composite

Prime Vs. Composite Task:

Use your blocks to prove whether the following numbers are prime or composite. Share how you know your number is composite or prime on boards next to your creations.

48, 29, 63, 27

Prime Creation Challenge:

Use only a number of blocks that add up to a prime number to make your own creation. Add a sign with number of blocks you used to share with your friends.