



Learning Outcomes:

- I will demonstrate my understanding of recursive functions with the Tower of Hanoi math problem.

Warm-Up Assignment:

- Play Tower of Hanoi
<https://www.mathsisfun.com/games/towerofhanoi.html>

Review of Prior Knowledge:

- Review Definition of Recursion

Introduction to New Material: (I Do)

- Introduce Tower of Hanoi Problem

Guided Practice: (We Do)

- Guide Through Expectations and Pseudocode

Independent Practice: (You Do)

- Write a functional JAVA program that solves the Tower of Hanoi

Standards/Expectations:

c.4.F.: identify, trace, and appropriately use recursion in programming solutions, including algebraic computations;

c.4.J.: compare and contrast search and sort algorithms, including linear, quadratic, and recursive strategies, for time/space efficiency;