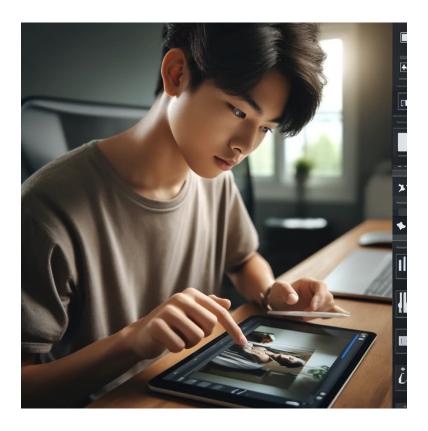# Graph Trans (AASL 2.11, AIHL 2.8)

Title: The Shape Shifter's Guide to Graph Transformations

Concept: Graph Transformations in Mathematics

Intuition Pump: Think of graph transformations as editing a picture on your device: moving it, stretching it, or flipping it.

Visual Analogy:

Translation: Like sliding a picture left or right, up or down. For graphs, this means adding or subtracting values to shift the graph vertically or horizontally.

Stretching/Compressing: Similar to zooming in or out on a photo. For graphs, multiply the values to stretch (factor > 1) or compress (factor < 1) the graph.

Reflection: Comparable to flipping an image. For graphs, reflecting across the x-axis or y-axis by changing the signs of x or y values.