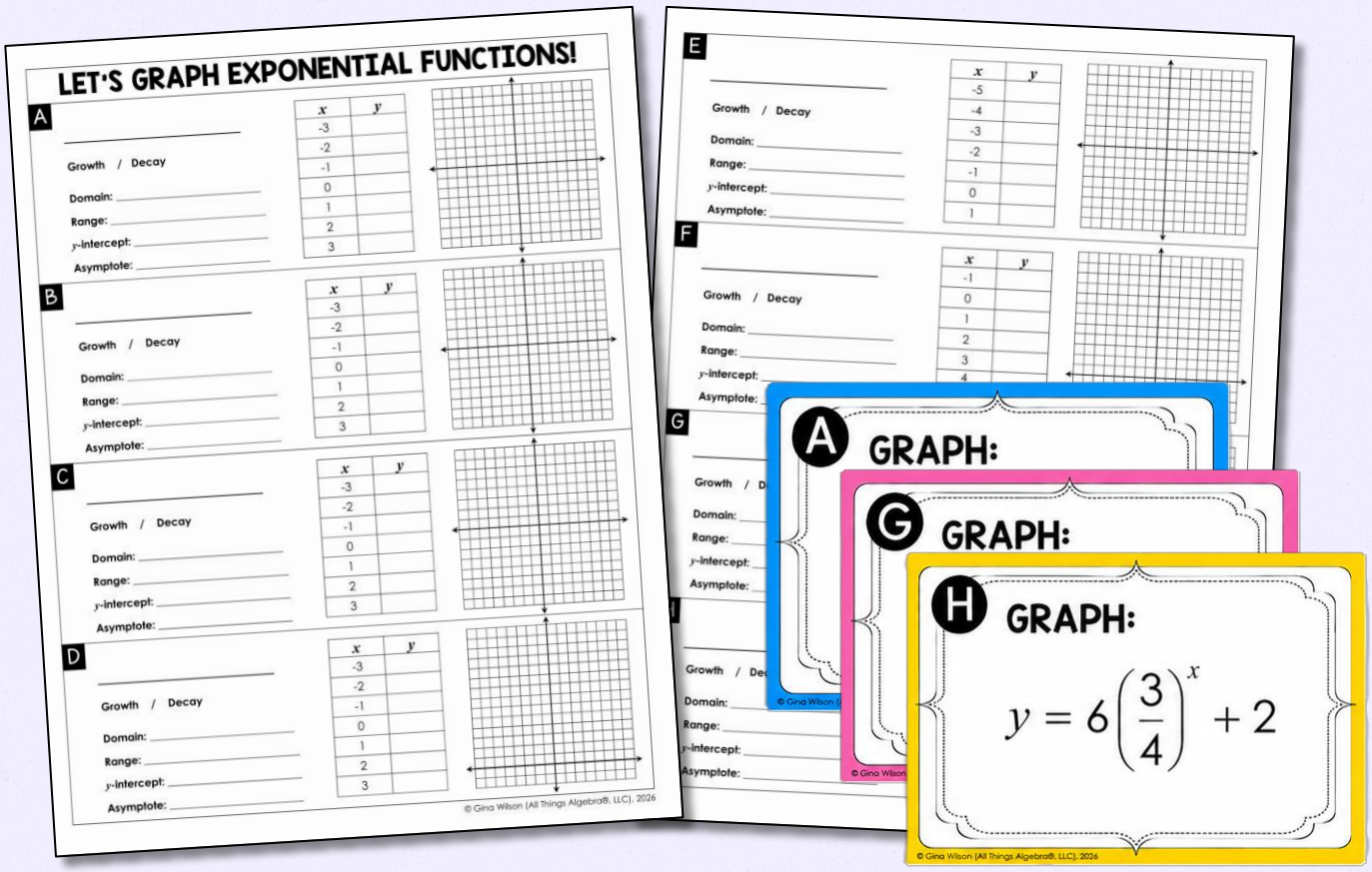


EXPONENTIAL *Functions*

STATIONS ACTIVITY

all things ALGEBRA®

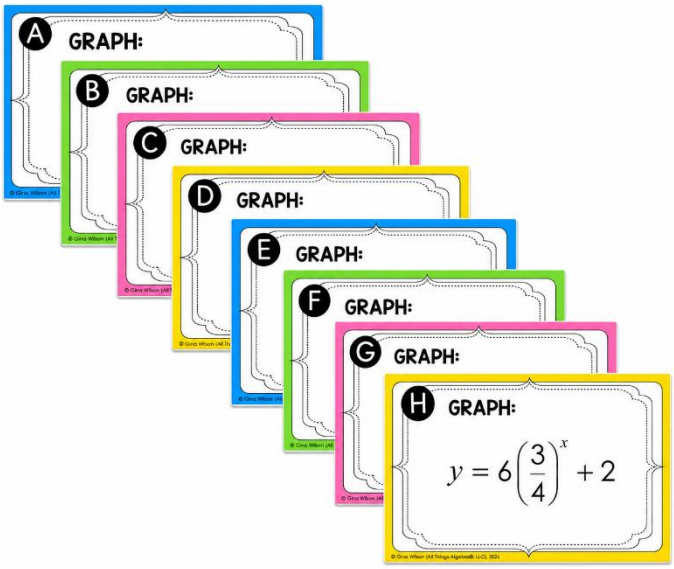
GRAPHING EXPONENTIAL FUNCTIONS

Stations Activity!

Objective: Students will practice graphing exponential functions and identifying key characteristics with this stations activity. This activity includes functions of the form $y = ab^x + k$ only, with no other transformations. Students will identify characteristics such as growth vs. decay, domain, range, y-intercept, and asymptote. This activity is most appropriate for students first learning about exponential functions and is typically best suited for an Algebra 1 course.

Activity Directions:

1) Print the 8 station cards and post around the room. I print mine on colored paper and laminate them.



2) Distribute the "Let's Graph Exponential Functions" stations worksheet to each student.

Place students into groups of 3-4 and assign them to a starting problem. I typically set the clock for about 4-5 minutes (longer if needed) to allow them time to graph the function and identify the characteristics.

When the alarm goes off, they move to the next station. After they have completed the activity, we discuss the answers as a class.