

Name: _____

Date: _____

Problem-Based Task: Rain Forest Discoveries

Biologists studying a rain forest discovered two new species of insects—wiggly bugs and swimmer ants—and tracked the growth of their populations. The number of wiggly bugs in the rain forest over the next t months is modeled by the function $w(t) = 2^t$. The number of swimmer ants in the rain forest over the next t months is modeled by the function $s(t) = 4t^2$. The biologists tracked the number of each species after 6 months. Will the species that had more members after 6 months continue to have more members than the other species in future months?

SMP	
1	2
3 ✓	4
5	6
7 ✓	8 ✓

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