**Need To Know: (2 pages)**

**Module Separation of Variables**

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Technique: Separation of Variables

Scenario: Ebola Outbreak in West Africa

**Need to know: Work to be done before the module**

**Review:** Integration by partial fractions, implicit differentiation, substitution etc., second derivative and inflection points.

**Assign:** Review sheet on partial fractions (**see page 2 below**)

**Review:** Where did exponential growth function come from?

Where did limited growth logistic equation come from? (Verhulst)

* + - Assignment: two videos:

**Assign:** [https://www.khanacademy.org/math/ap-calculus-bc/bc-differential-equations-new/bc-7-9/v/modeling-population-with-differential-equations](Exponential%2520model)

**See page 2 below for review sheet.**

