Establishing a system dynamics model:

1. Identify time scale/increment of system.
2. Identify key components.
3. Identify units of each component
4. Identify relationships.
5. Construct differential equations for relationships.
6. Identify parameter values.

**Basic exponential growth:**

A math equation with black text

Description automatically generated with medium confidence

**Identifying r-value:**

A screenshot of a math test

Description automatically generated

**Sigmoidal population growth:**

A close up of a number

Description automatically generated

**Population growth under predation (x=N/K) and (tau=t\*r):**

A math equations with black text

Description automatically generated with medium confidence