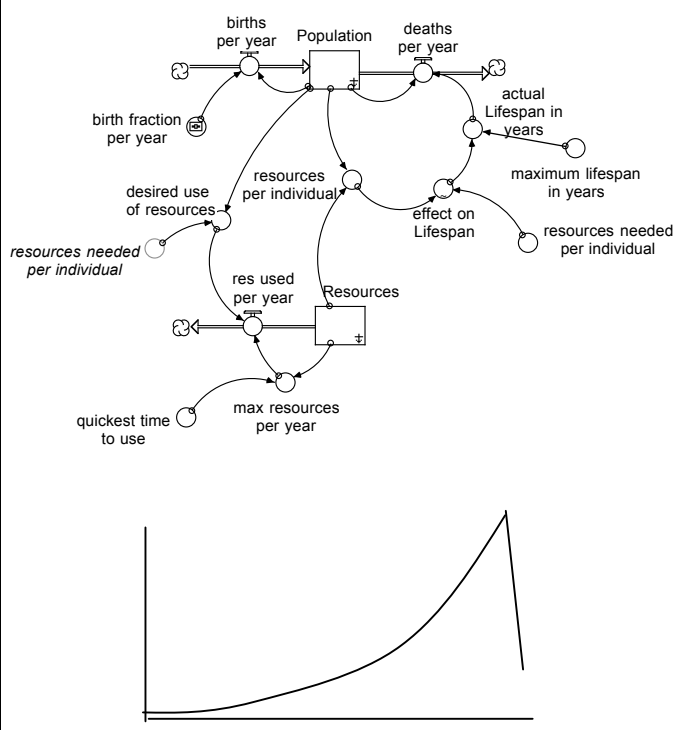


Overshoot Behavior

Generic Structure/Pattern	General
 <p>The diagram is a causal loop diagram with the following components and connections:</p> <ul style="list-style-type: none"> Population (stock) leads to births per year (flow) and deaths per year (flow). births per year is influenced by birth fraction per year (control variable). deaths per year is influenced by actual Lifespan in years (control variable). Population leads to resources per individual (control variable). resources per individual leads to desired use of resources (control variable). desired use of resources leads to res used per year (flow). res used per year leads to Resources (stock). Resources leads to max resources per year (control variable). max resources per year leads to resources needed per individual (control variable). resources needed per individual leads to desired use of resources. Resources leads to effect on Lifespan (control variable). effect on Lifespan leads to actual Lifespan in years. actual Lifespan in years leads to deaths per year. actual Lifespan in years is influenced by maximum lifespan in years (control variable). actual Lifespan in years is also influenced by resources needed per individual. Resources is replenished by quickest time to use (control variable). <p>The graph below the diagram shows a curve that starts at a low level, rises exponentially, reaches a peak, and then drops sharply, illustrating overshoot behavior.</p>	<p>Connections to Life: Renewable and non-renewable resources</p> <p>Lesson Title</p> <p>Grade Level</p> <p>Subject</p> <p>Related Standards/Objectives</p>
Lesson/Assessment Outline	
Empty space for lesson/assessment outline	