

Construct and compare linear, quadratic, and exponential models and solve problems (F.LE.3)	
<b>Standard II.F.LE.3:</b> Observe using graphs and tables that a quantity increasing exponentially eventually exceeds a quantity increasing linearly, quadratically, or (more generally) as a polynomial function. Compare linear and exponential growth to quadratic growth.	
Concepts and Skills to Master	
<ul style="list-style-type: none"> <li>Observe that a quantity increasing exponentially eventually exceeds a quantity increasing linearly or quadratically using graphs and tables.</li> </ul>	
Related Standards: Current Course	Related Standards: Future Courses
<a href="#">II.A.REI.7</a> , <a href="#">II.F.IF.4</a> , <a href="#">II.F.IF.6</a> , <a href="#">II.F.IF.7</a> , <a href="#">II.F.IF.9</a> , <a href="#">II.F.LE.3</a> , <a href="#">II.F.IF.6</a>	<a href="#">III.A.REI.11</a> , <a href="#">III.F.IF.4</a> , <a href="#">III.F.IF.6</a> , <a href="#">III.F.IF.7</a> , <a href="#">III.F.IF.9</a> , <a href="#">III.F.BF.3</a> , <a href="#">III.F.LE.3</a> , <a href="#">III.F.LE.5</a> , P.F.IF.7

### Support for Teachers

Critical Background Knowledge
<ul style="list-style-type: none"> <li>Observe using graphs and tables that a quantity increasing exponentially eventually exceeds a quantity increasing linearly (<a href="#">I.F.LE.3</a>)</li> <li>Distinguish between linear and exponential functions (<a href="#">I.F.LE.1</a> and <a href="#">I.F.LE.2</a>)</li> <li>Compare properties of two functions using multiple representations (<a href="#">I.F.IF.9</a>)</li> </ul>
Academic Vocabulary
Resources
<b>Curriculum Resources:</b> <a href="http://www.uen.org/core/core.do?courseNum=5620#71491">http://www.uen.org/core/core.do?courseNum=5620#71491</a>