

Construct and compare linear, quadratic, and exponential models and solve problems (F.LE.3)	
Standard II.F.LE.3: 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"> Observe that a quantity increasing exponentially eventually exceeds a quantity increasing linearly or quadratically using graphs and tables. 	
Related Standards: Current Course	Related Standards: Future Courses
II.A.REI.7 , II.F.IF.4 , II.F.IF.6 , II.F.IF.7 , II.F.IF.9 , II.F.LE.3 , II.F.IF.6	III.A.REI.11 , III.F.IF.4 , III.F.IF.6 , III.F.IF.7 , III.F.IF.9 , III.F.BF.3 , III.F.LE.3 , III.F.LE.5 , P.F.IF.7

Support for Teachers

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