

YEARLY ESSENTIALS

UNIT 1 (Eureka Module 1)

1. **7.RP.A.2** - Recognize and represent proportional relationships between quantities:
- Decide whether two quantities are in a proportional relationship (e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin)
 - Identify unit rate (also known as the constant of proportionality) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships
 - Represent proportional relationships by equations (e.g., if total cost t is proportional to the number n of items purchased at a constant price p , the relationship between the total cost and the number of items can be expressed as $t = pn$)
 - Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where r is the unit rate

UNIT 2 (Eureka Module 2)

2. **7.NS.3** Solve real-world and mathematical problems involving the four operations with *rational numbers*, including but not limited to *complex fractions*

UNIT 3 (Eureka Module 3)

3. **7.EE.B.4** Solve word problems leading to equations of these forms $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific *rational numbers*. Solve equations of these forms fluently

UNIT 4 (Eureka Module 4)

4. **7.RP.A.3** Use proportional relationships to solve multi-step ratio and percent problems

UNIT 5 (Eureka Module 5)

5. **7.SP.C.7** Develop a probability model and use it to find probabilities of events

UNIT 6 (Eureka Module 6)

6. **7.G.B.6** Solve real-world and mathematical problems involving area of two-dimensional objects and volume and surface area of three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms

