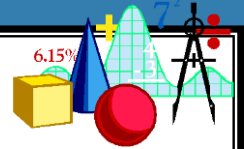Mathematics, Geometry
Unit V: Lesson 2   Application: **Rotary Combustion Engine**

Research the properties of a Reuleaux triangle. The rotary combustion engine is an important application of the Reuleaux triangle.

Determine the properties of a Reuleaux triangle that are important in the operation of an engine. Magazines such as *Popular Science* or *Motor Trends* would help you explore the mathematics involved. Investigate the gear ratios between the ring gear on the rotor and the output shaft and the rationale for these ratios.

Make an oral report to the class of your discoveries using illustrations or models.