

# Comparing 4-Stroke & 2-Stroke Engines

- The primary differences in 4-cycle and 2-cycle engines are as follows;
- The number of power strokes per crankshaft revolution (refer to your handout)
- The method of getting the fuel-air mixture into the combustion chamber and burned gases out
- The method of lubricating internal moving parts (oil sump vs oil-gas mixture)

# Comparing 4-Stroke & 2-Stroke Engines

- If you put a mixture of oil and gas in the oil sump of a 4-cycle engine, instead of crankcase oil, the engine will overheat because of lack of proper lubrication
- If you put gasoline in a 2-cycle engine without first mixing it with oil, the engine will overheat because of lack of lubrication. It will not run very long before the piston and bearings will overheat, score, and seize. Two cycle engines have a sealed crankcase but no oil sump.