Name of Unit: **Hydraulics & Pneumatics**	
Grade	**11 Pneumatics & 12 Hydraulics**
Unit of Study	**Fluid Power**
Length of Unit	**20 Days**

Missouri Learning Standards

I2 Identify fluids and contamination control techniques © **I3** Calculate elementary force, power, speed, and pressure (i.e. Pascal's law) © **I4** Describe hydraulic components (i.e. pumps, reservoirs, actuators, and control valves) © **I5** Demonstrate the use of hydraulic components (i.e. pumps, actuators, and control valves) (C)	**I6** Describe pneumatic components (i.e. compressors and dryers) © **I7** Demonstrate the use of pneumatic components (i.e. compressors and dryers) © **I8** Describe vacuum components (i.e. actuators and reservoirs) © **I9** Demonstrate the use of vacuum components (i.e. actuators and reservoirs) (C)

Learning Targets

I can draw a fluid power schematic.

I can describe how fluid power works and the laws.

I can properly setup a hydraulic/pneumatic circuit.

Intervention and Enrichment

If a student requires additional help with the lesson, I will meet with the students to discuss a plan going forward.

Assessments

MLS (Learning Goal)	Description or Location
● Amatrol Learning Assessments	Fluid Power File Folder
●	

Vocabulary

Fluid Power Pneumatic Hydraulic	Valve DCV Accumulator	Cylinder	

Instructional Materials

Amatrol Interactive learner
Amatrol Fluid Power trainer

Additional Instructional Resources

Circuit Trainer

Reflections for Future Revisions