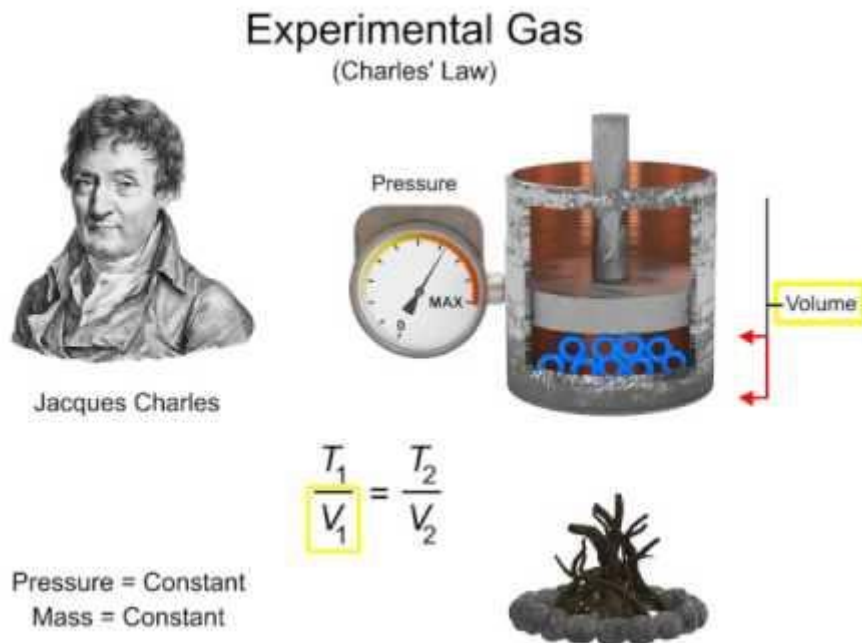


Name: Fluid Power, Fluid Motion and Fluid Mechanics: Pascal, Boyle, Charles and Bernoulli Principle

Description: This video explains Pascal's law; Boyles' law; Charles' law and Bernoulli's principle and their applications.

Experimental Gas
(Charles' Law)



The diagram illustrates the experimental setup for Charles' Law. It features a gas cylinder with a piston and a pressure gauge. The pressure gauge is labeled 'Pressure' and has a needle pointing towards 'MAX'. The volume of the gas is indicated by a vertical line with a yellow box labeled 'Volume' and a red double-headed arrow. Below the cylinder is a small fire, representing a heat source. To the left of the cylinder is a portrait of Jacques Charles, with his name written below it. The equation $\frac{T_1}{V_1} = \frac{T_2}{V_2}$ is shown in the center, with the V_1 term highlighted in a yellow box. Below the equation, the conditions 'Pressure = Constant' and 'Mass = Constant' are listed.

Jacques Charles

$$\frac{T_1}{V_1} = \frac{T_2}{V_2}$$

Pressure = Constant
Mass = Constant

<https://www.youtube.com/watch?v=BMyFYe1kyYw>

Teachers may suggest children to develop different technological modules.