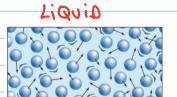
PRESSURE & COMPRESSION

- FLUIDS HAVE MANY USEFUL PROPERTIES - O ONE IS COMPRESSIBLLITY

WHEN A FORCE PUSHES ON AN OBJECT, it is said to be under compression and will usually deform in shape

GASSES CAN COMPRESS MUCH MORE THAN LIQUIDS. - D FEWER PARTICLES to SQUISH WHY? D PARTICLE MODEL of MOTHER





GASSES = High COMPRESSION ABILITY
Liquids = VERY Little COMPRESSION is Possible [IF ANY]

MATERIALS IN A LIQUID STATE ARE SAID TO BE INCOMPRESSIBLE

CANNOT BE COMPRESSED EASILY

Liquid L

NERY USEFUL B/c it can transfer PRESSURE in HYDRAULICS

OR PNEVMATICS

IMPORTANT RELATIONSHIP

BETWEEN FORCE, AREA, PRESSURE

* PRESSURE = AMOUNT of FORCE APPLIED TO GIVEN AREA.

Lo MEASURED in pascals (fa)

P=F/A nAREA (Square METERS/M²) OF 1 Im²

- Pascals (Pa)

PASCAL'S LAW - AN ENCLOSED FLUID TRANSMITS PRESSURE,

WITHOUT LOSS EQUALY IN ALL DIRECTIONS

Pascal's law

External pressure

HYDRAUCICS - USE LIQUIDS AS ENCLOSED FLUID - BRAKES

PNEUMATICS - USE GASSES AS ENCLOSED FLUID - BUS DOORS

**ENTIRE SYSTEM MUST BE COMPLETELY SEALED #*
- A LEAK CAN CAUSE ENTIRE SYSTEM to fail