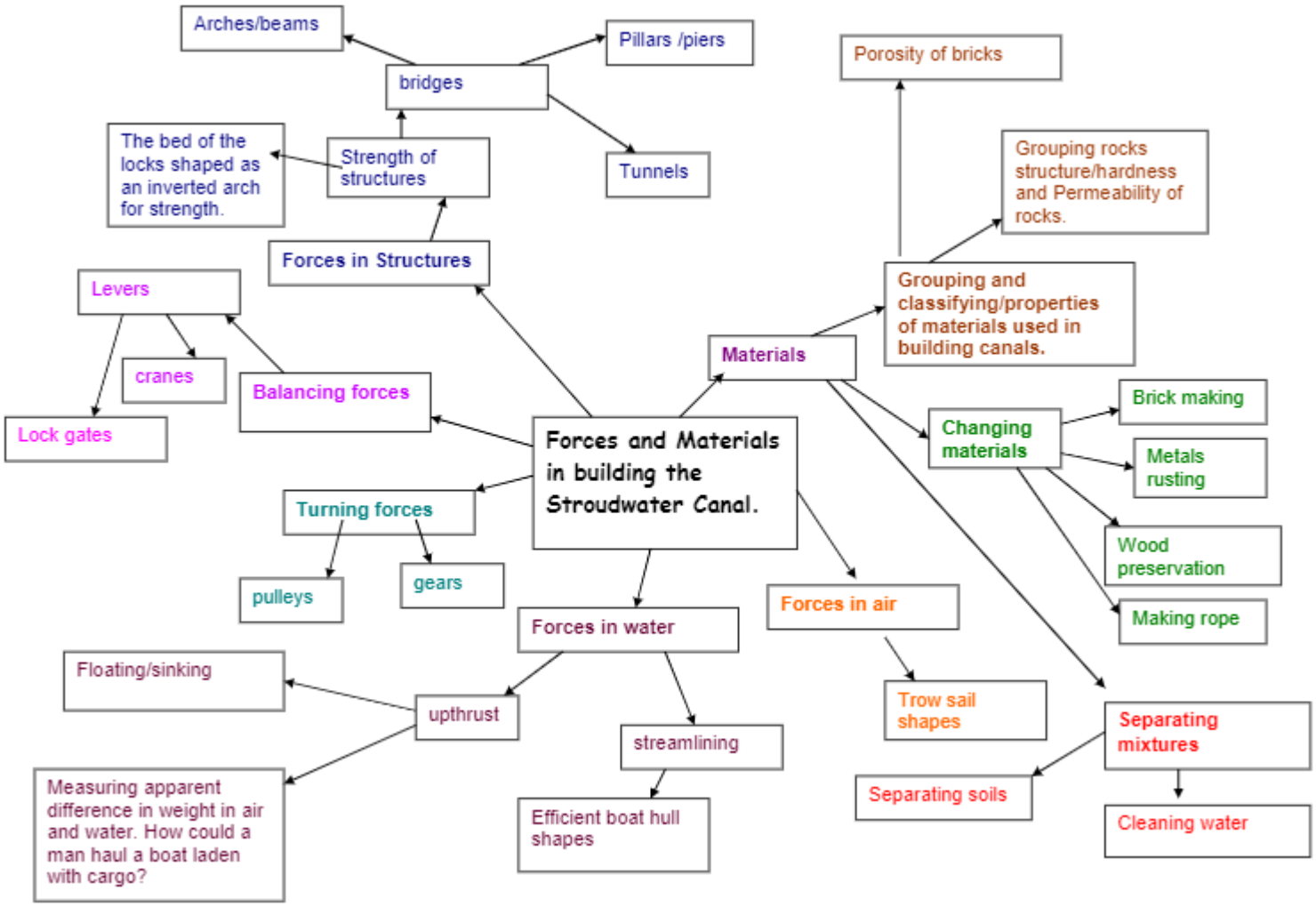
Forces and Materials in building the Stroudwater Canal.
Forces in Structures
bridges
Arches/beams
Pillars /piers
Tunnels
Strength of structures
The bed of the locks shaped as an inverted arch for strength.
Levers
cranes
Lock gates
Balancing forces
Turning forces
pulleys
gears
Materials
Grouping and classifying/properties of materials used in building canals.
Porosity of bricks
Grouping rocks structure/hardness and Permeability of rocks.
Changing materials
Brick making
Metals rusting
Wood preservation
Making rope
Separating mixtures
Separating soils
Cleaning water
Forces in air
Trow sail shapes
Forces in water
upthrust
Floating/sinking
Measuring apparent difference in weight in air and water. How could a man haul a boat laden with cargo?
streamlining
Efficient boat hull shapes