```
Material

    effectsOnMaterial

    compDefStrength

- impactDefStrength

    tensileDefStrength

    torsionDefStrenght

    shearDefStrength

    compFractStrength

- impactFractStrength

    tensileFractStrength

    torsionFractStrenght

    shearFractStrength

    plasticity

    density

    materialName

+ operator==()
+ operator!=()
+ operator=()
+ Material()
+ Material()
+ PerformMaterialCalculations()
+ setDeformationStrenghts()
+ setFractureStrength()
+ setDensity()
+ setMaterialName()
and 6 more...
- SetupForce()

    SetupShearForce()

    SetupImpactForce()

- SetupCompressionForce()

    SetupTensileForce()

- SetupTorsionForce()

    CalculateForcePenentration()

    CalculateForcePenentration()

    ApplyForcePenentration()

    DetermineWoundSeverity()

                  -material
              Tissue

    name

    thickness

    bleedingRate

    hasArteries

      + operator==()
      + operator!=()
      + operator=()
      + Tissue()
      + Tissue()
      + Tissue()
      + setName()
      + setThickness()
      + setBleedingRate()
      + setHasArteries()
      and 7 more...
```