**Grade 7 Structures Review**

**Types of structures *(functions and examples from real life)***

-shell

-frame

-solid

**Stable structures / balance *(explain)***

-center of gravity

-wide base

-weight low

**Forces & effects of force *(explained & diagrams)***

-magnitude, direction, & point / plane of application

-torsion

-tension

-compression

-shear

-structural stress, fatigue, failure

-internal and external forces

-load

-dynamic and static forces and loads

**Strength in structures & bridges *(explained & diagrams)***

-strong shapes (tri, square, arch/ dome)

-span

-guy

-strut

-tie

-cable

-beam

-column

-truss

-buttress

-arch

**Types of Bridges *(match with pic, explain pros / cons)***

-beam

-suspension / cable stayed

-truss / cantilever

-arch