**GR. 7 STRUCTURES GLOSSARY – JUMBLE! **

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| **Bend** | A bridge that uses cables strung from towers at each end to support the bridge from above. |
| **Arch Bridge** | The load on a structure caused by a force other than gravity. |
| **Beam Bridge** | A structural change caused when an external force generates forces of tension and compression in a beam or member. |
| **Truss Bridge** | A structural element made up of a series of triangular frames. |
| **Suspension Bridge** | A structure is stable if it remains on its base, undamaged, when acted on by the forces it is built to withstand. |
| **Cantilever Bridge** | A force within a structure that squeezes or pushes. |
| **Buckle** | A bridge made of at least one beam supported at each end and sometimes with columns underneath. |
| **Centre** **of** **Gravity** | A twisting force within a structure; created by applying opposite rotational forces. |
| **Compression** | The point in a structure at which you can picture the mass of the object being concentrated. |
| **Dead** **Load** | A bridge that uses at least on arch, made of steel, concrete or stone to support the bridge either from below or above. |
| **Dynamic** **Load** | A member that supports a structure; the dominant force within a strut is compression.  |
| **Span** | Structural change caused by torsion acting within a structure. |
| **Stable** | The static load caused by gravity acting on the mass of a structure; the weight of the structure. |
| **Static** **Load** | A frame bridge that relies on a system of triangular supports to support its load. |
| **Strut** | A section of a bridge that lies between two supports. |
| **Tension** | A member that supports a structure; it's under tension. |
| **Tie** | A structural change caused by a compression force acting on a beam or member, characteristics are the wrinkling or pleating of material. |
| **Torsion** | A bridge that relies on masses at the ends to support the middle. |
| **Truss** | A stretching or pulling force within a structure or part of a structure. |
| **Twist** | A load caused by the force of gravity. |

**GR. 7 STRUCTURES GLOSSARY – JUMBLE! **

**ANSWERS**

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| **Suspension Bridge** | A bridge that uses cables strung from towers at each end to support the bridge from above. |
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