|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria** | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| **Forces** | Five forces are not present | Five forces are written | Five forces are either illustrated or explained | Five forces are illustrated and explained |
| **Types of Bridges** | 5 Types of bridges are not present | 5 Types of bridges are not present | 5 Types of bridges are explained and illustrated | 5 Types of bridges are explained and illustrated with examples of each |
| **Scales** | Little or no notes are present on scales | Notes are present describing what scaled drawings are, why they are useful along with multiple example problems | Along with the criteria to meet level 2, a scaled drawing is present with either units (i.e. 1-in:20-ft) or unitless (i.e. 1:1000) | Along with the criteria to meet level 2, multiple scaled drawings are present with a mix of scales with units (i.e. 1-in:20-ft) and unitless scales (i.e. 1:1000) |
| **Vocab, Live-load & Dead Load** | Little or no notes are present on the parts of a bridge or on live-load/dead-load | The notes have: -a picture(s) of a bridge labeling at least 6 partsOR-a definition of live-load, dead-load, structural efficiency with correctly worked examples | The notes have: -a picture(s) of a bridge labeling at least 6 parts AND-a definition of live-load, dead-load, structural efficiency with correctly worked examples of finding S.E. | The notes have: -a picture(s) of a bridge labeling at least 6 parts AND-a definition of live-load, dead-load, structural efficiency with example problems for calculating S.E. from real-world examples |
| **Surveying** | Info on surveying is nonexistent or minimal | Notes are present describing what surveying is and why it is useful | Notes are present describing what surveying is, as well as having a solved example scenario (with measurements) where the surveying equipment is used to find a change of elevation | Notes are present describing what surveying is, as well as having multiple solved example scenarios (with measurements) where the surveying equipment is used to find a change of elevation |

Score: \_\_\_\_\_/20