
Bridge Judging Score Sheet

Team Name: _____

Weight of bridge: _____ Load held: _____

Design uses concepts learned about bridges _____/10

Design uses concepts learned about tidal inlets _____/10

Design uses concepts learned about Geotechnical
Engineering _____/10

Calculations are made and written down* _____/10

Preliminary Budget is laid out _____/10

Cost calculations are made _____/10

Little glue is used _____/10

(5 bonus points for using no glue) _____

Bridge holds a heavy weight before failing** _____/10

Load held per unit weight of bridge** _____/10

Low cost per yard of span _____/10

Creativity is used in design _____/10

Total _____

*Calculations need not even use numbers. They may be just a conceptual force balance. Approximating the number of sticks and/or fasteners needed would also be a calculation. Points will only be given if calculations are correct.

**Allot these points as follows:

Students in the highest 10% 10 points

Students in the second highest 10% 9 points

Students in the third highest 10% 8 points

Etc.

Bridge Strength Sheet

Highest weight withstood _____

10% of highest weight withstood _____

Weight levels:

Highest 10% _____ to _____ 10 points

Second 10% _____ to _____ 9 points

Third 10% _____ to _____ 8 points

Fourth 10% _____ to _____ 7 points

Fifth 10% _____ to _____ 6 points

Sixth 10% _____ to _____ 5 points

Seventh 10% _____ to _____ 4 points

Eighth 10% _____ to _____ 3 points

Ninth 10% _____ to _____ 2 points

Tenth 10% _____ to _____ 1 point

Bridge Load/Unit Weight Sheet

Highest load/unit weight _____

10% of highest load/unit weight _____

Weight levels:

Highest 10% _____ to _____ 10 points

Second 10% _____ to _____ 9 points

Third 10% _____ to _____ 8 points

Fourth 10% _____ to _____ 7 points

Fifth 10% _____ to _____ 6 points

Sixth 10% _____ to _____ 5 points

Seventh 10% _____ to _____ 4 points

Eighth 10% _____ to _____ 3 points

Ninth 10% _____ to _____ 2 points

Tenth 10% _____ to _____ 1 point