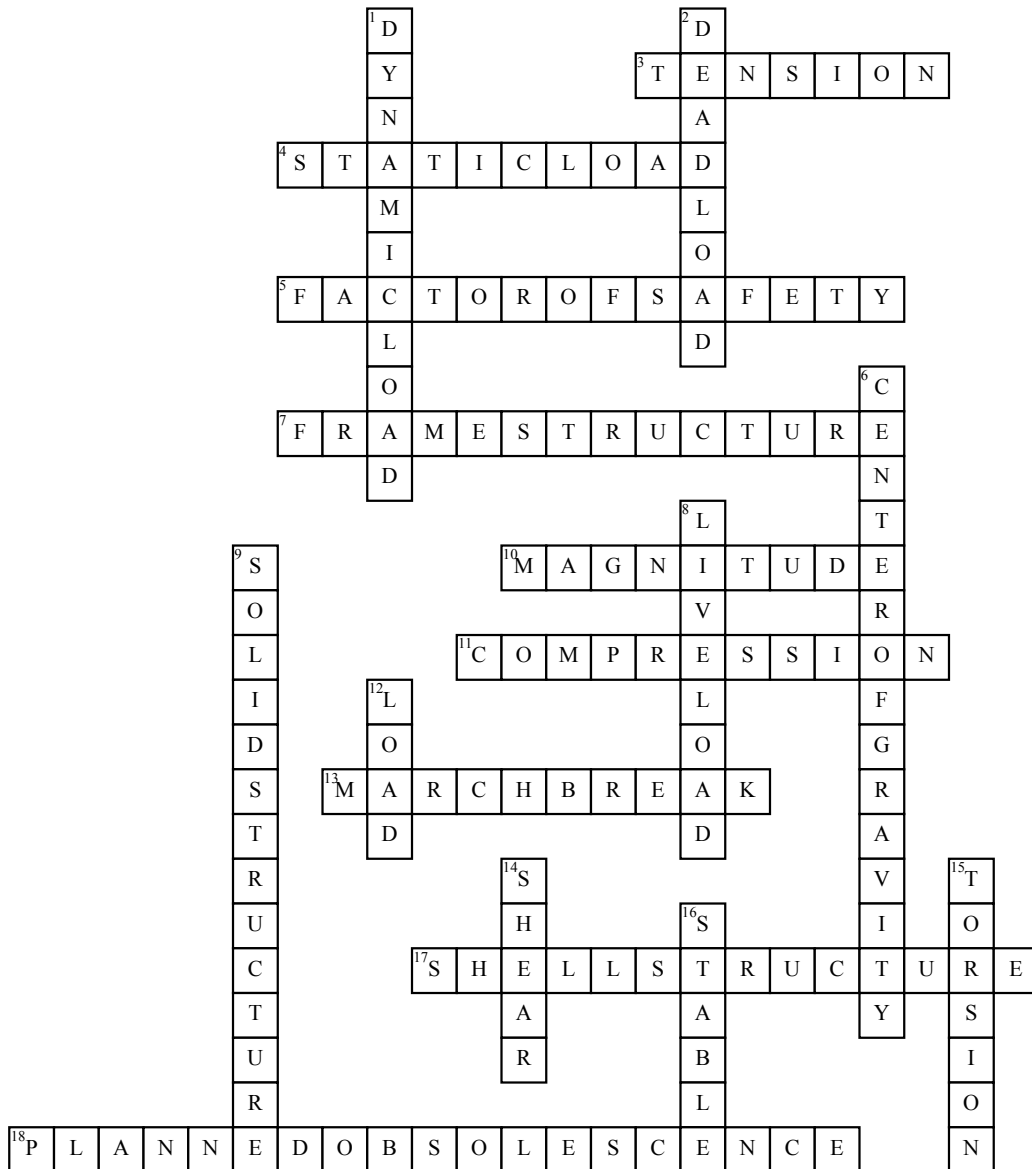


Name: _____

Date: _____

Structural Strength and Stability



Across

3. A stretching or pulling force withing a structure or part of a structure.
4. A load caused by the force of gravity.
5. A measure of how safe a structure is; divide the max live load a structure can hold by the live load expected under max use.
7. A structure formed from components that are fastened together to support and strengthen each other.
10. A description of the strength of a force.
11. A force within a structure or part of a structure that squeezes or pushes.

13. A short break from school that happens in the spring time.

17. A structure that is built as solid surface around a hollow area.

18. A process in which a product is intentionally designed to be replaced after a limited time.

Down

1. A load on a structure caused by a force other than gravity.

2. The static load caused by gravity acting on the mass of a structure.

6. The point in a structure at which you can picture the mass of the object being concentrated.

8. A static load caused by gravity acting on all of the things in and on a structure that are not part of the structure.

9. a structure formed from a single unit with no hollow spaces.

12. The effect of forces acting on a structure.

14. Two factors that act in opposite directions along the same plane inside an object. Pull apart parallel parts .

15. A twisting force within a structure or part of a structure created by applying opposite rotational forces.

16. A structure remains on its base, undamaged, when acted on by the forces it is designed to withstand.