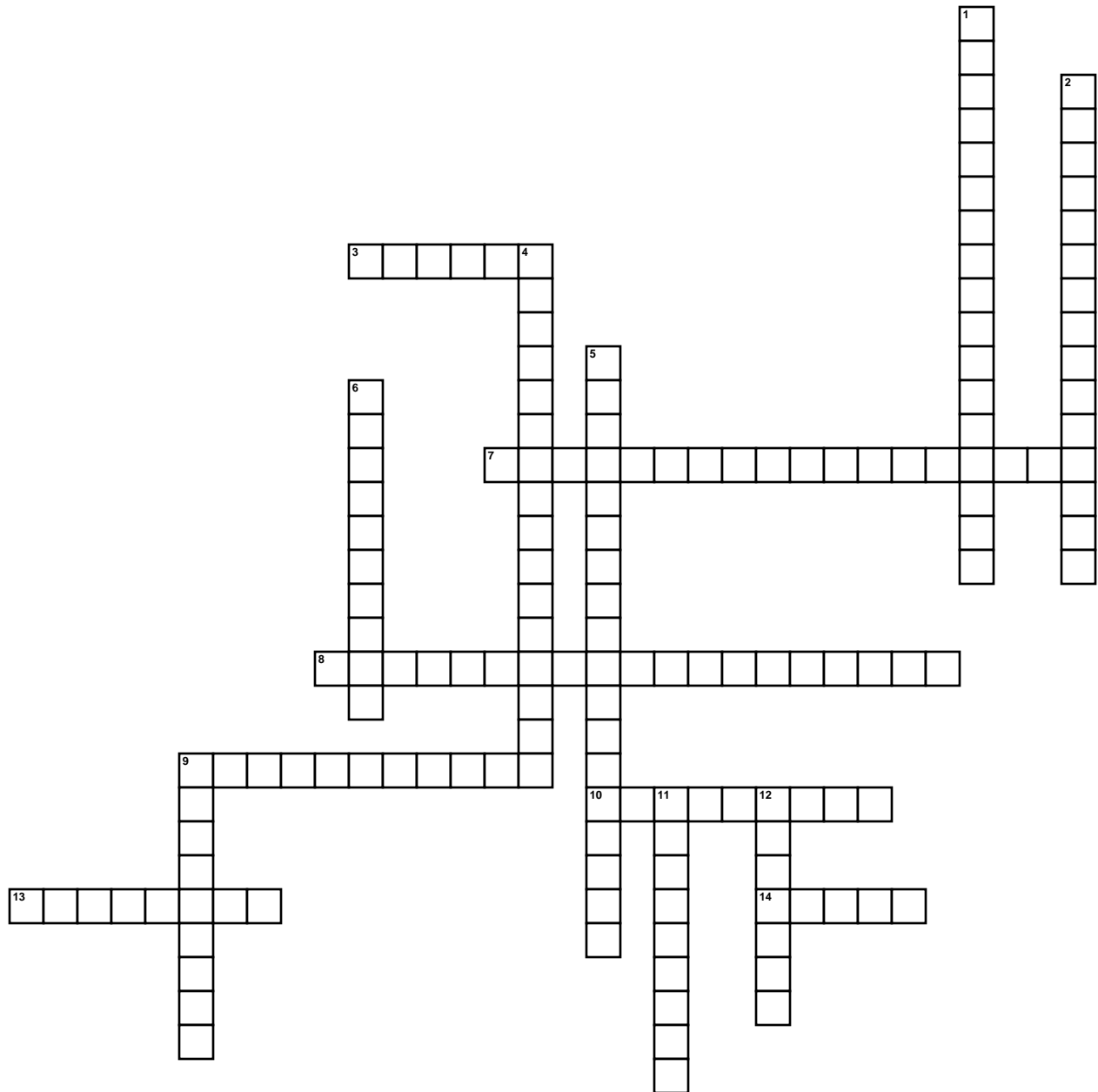


# Stresses & Strains



## Across

- [3]** A very rapidly applied load
- [7]** When the load is removed the material returns to its original shape.
- [8]** Basically measures the stiffness or rigidity of a material.
- [9]** Pushing force on both end of an object towards the center an object.
- [10]** The science of sound waves.
- [13]** Type of load created by the weight of building components.
- [14]** This stress produces force that work in opposite direction parallel with the plane of the force, causing adjacent parts to move past each.

## Down

- [1]** Properties of a material that relate to how it reacts and responds to heat.
- [2]** Resistance of a material to a cyclic load.
- [4]** Expansion due to heat.
- [5]** When the load is removed the object is permanently deformed.
- [6]** The movement of an object when a load is introduced.
- [9]** Chemical or electro-chemical decay.
- [11]** Decay due oxygen.
- [12]** Pulling force applied to the end of an object.

# Solution

