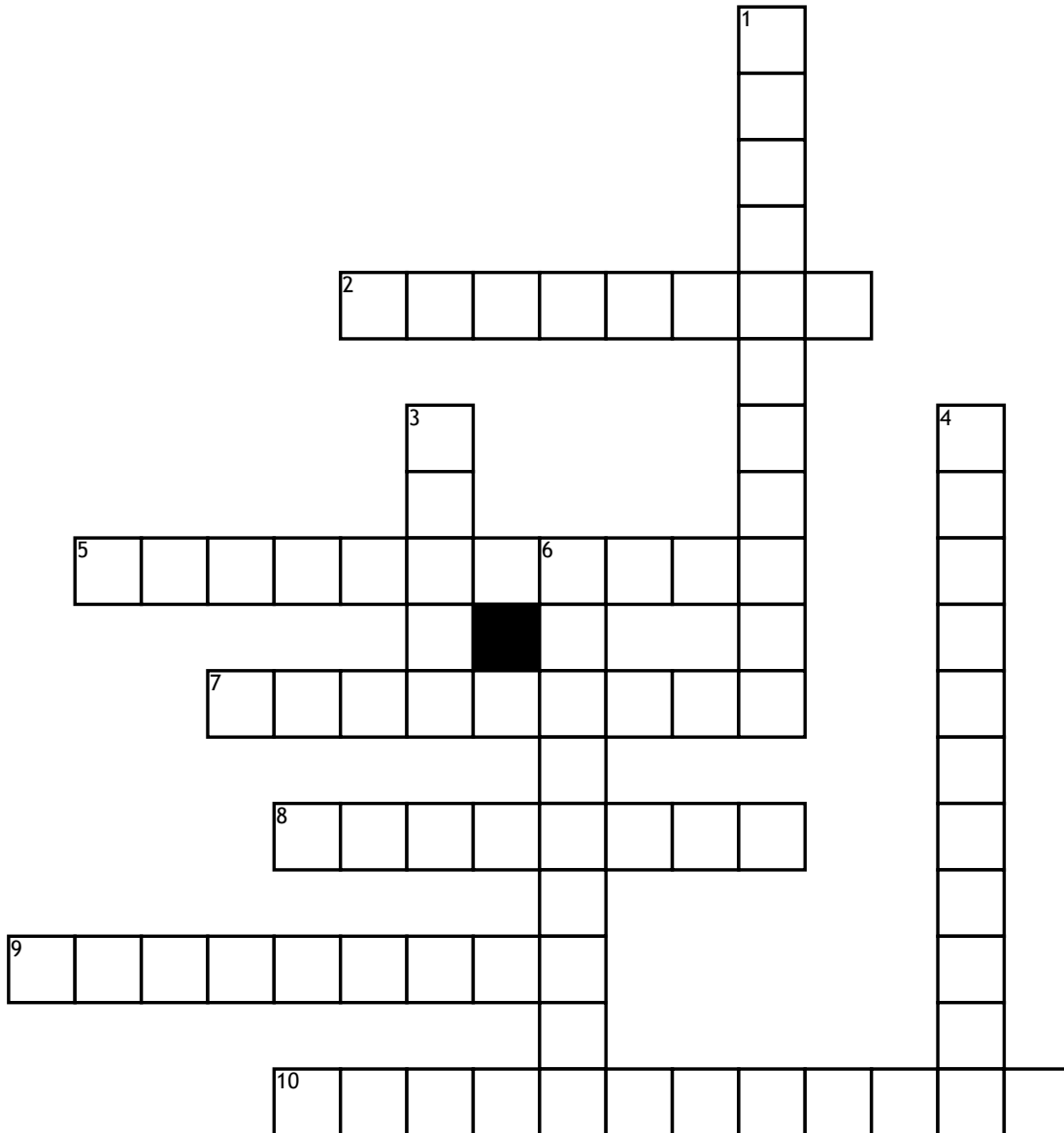


# Intro To Metrology



**Across**

- 2. external authority, physical embodiment of a unit
- 5. bringing a measuring system into accordance with external authority, using standards
- 7. the study of measurement
- 8. how close an individual value to the true or accepted value
- 9. consistency of a series of measurements
- 10. the chain of calibrations, genealogy, that establishes the value of a standard for measurement

**Down**

- 1. estimate of the inaccuracy of a measurement that includes both random and systematic components; estimate of range of true value for a measurement lies
- 3. responsible for the difference between a measured value and the "true" value
- 4. try to figure out all the possible sources of uncertainty and estimate their magnitude
- 6. amount of error that is allowed in the calibration of a particular item