

*Jefferson Lab*

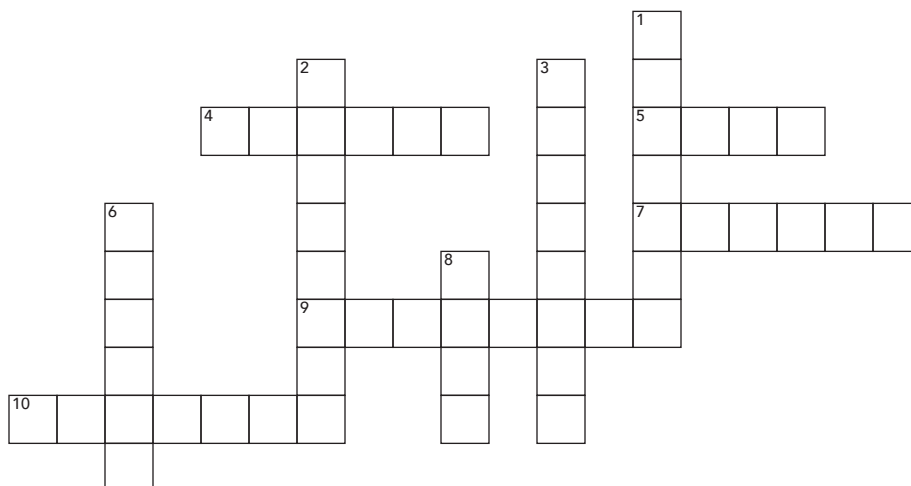
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FALL



*for Science*

## Elements at Jefferson Lab



### Across

- 4 In its liquid form, this element is used to cool Jefferson Lab's acceleration cavities.
- 5 Sheets of this dense material are used in some of our detectors to help measure how much energy particles have.
- 7 Drawn into wire, this element is wrapped around the cores of our electromagnets.
- 9 With a boiling point of 77 K, this element is often used to freeze flowers and shatter racquetballs when students come to visit.
- 10 Becoming superconductive near absolute zero, we make our acceleration cavities from this element.

### Down

- 1 This element forms the chips inside our computers - and yours!
- 2 A surprising amount of this element, in the form of foil, is wrapped around unassembled accelerator components in order to keep them free from dust.
- 3 The simplest element, it is cooled to its liquid state and used as a target for experiments in Experimental Hall D.
- 6 This element, in the form of a diamond, produces high energy photons from CEBAF's electron beam for experiments conducted in Experimental Hall D.
- 8 This common element forms the cores of our electromagnets.

Hint: Visit [education.jlab.org/itselemental/](http://education.jlab.org/itselemental/) if you need to do additional research.