

The World's Smallest Movie

Name

Period

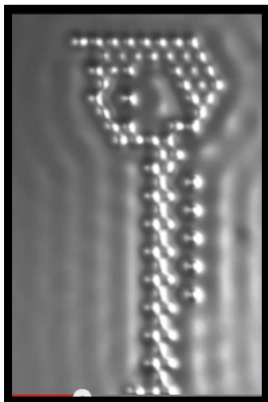
"A Boy and His Atom"

Central Science → Physical Science → Atoms and Molecules Videos → World's Smallest Movie

<http://www.research.ibm.com/articles/madewithatoms.shtml#fbid=I9nlZirMgnO>

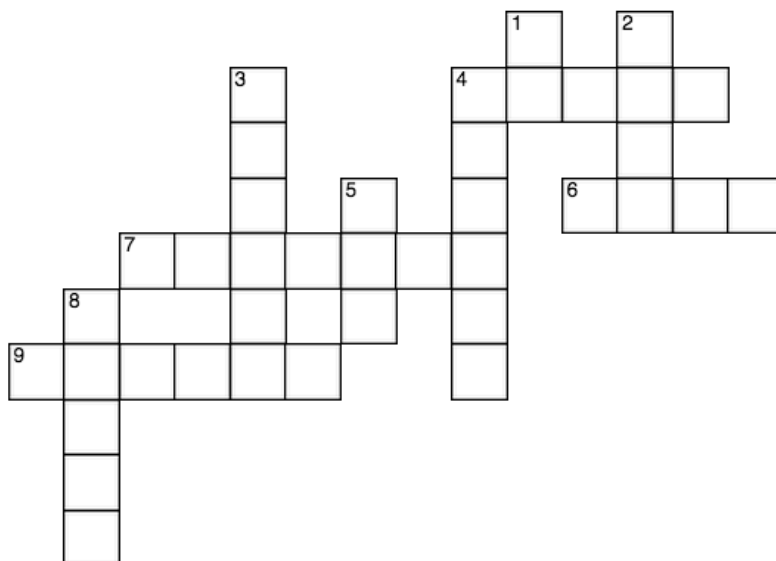
Watch!

- 1) Get 5 points while you have the movie on the screen.
- 2) Read about it. Fill out the crossword for 5 more points.



The World's Smallest Movie

A Boy And His Atom



✓ as you go!

ACROSS

- ___ 4 The Scientists decided to have some fun and make a _____.
___ 6 A computer BIT of memory holds one digit, a one (1) or a ____ (0).
___ 7 Today it takes one _____ atoms to hold a computer BIT of data.
___ 9 The surface for the movie was a tiny plate of Cu, or _____.

DOWN

- ___ 1 They used molecules of ____ which are each a carbon atom attached to an oxygen atom or Carbon Monoxide.
___ 2 There are probably _____ million atoms in the period at the end of this sentence.
___ 3 The movie was made using _____ atoms.
___ 4 They moved the atoms with a scanning Tunneling Microscope (STM), a little like a _____ needle.
___ 5 IBM scientists had just created the smallest computer memory _____, using 12 atoms.
___ 8 The movie has been verified as the smallest by Guinness _____ Records.