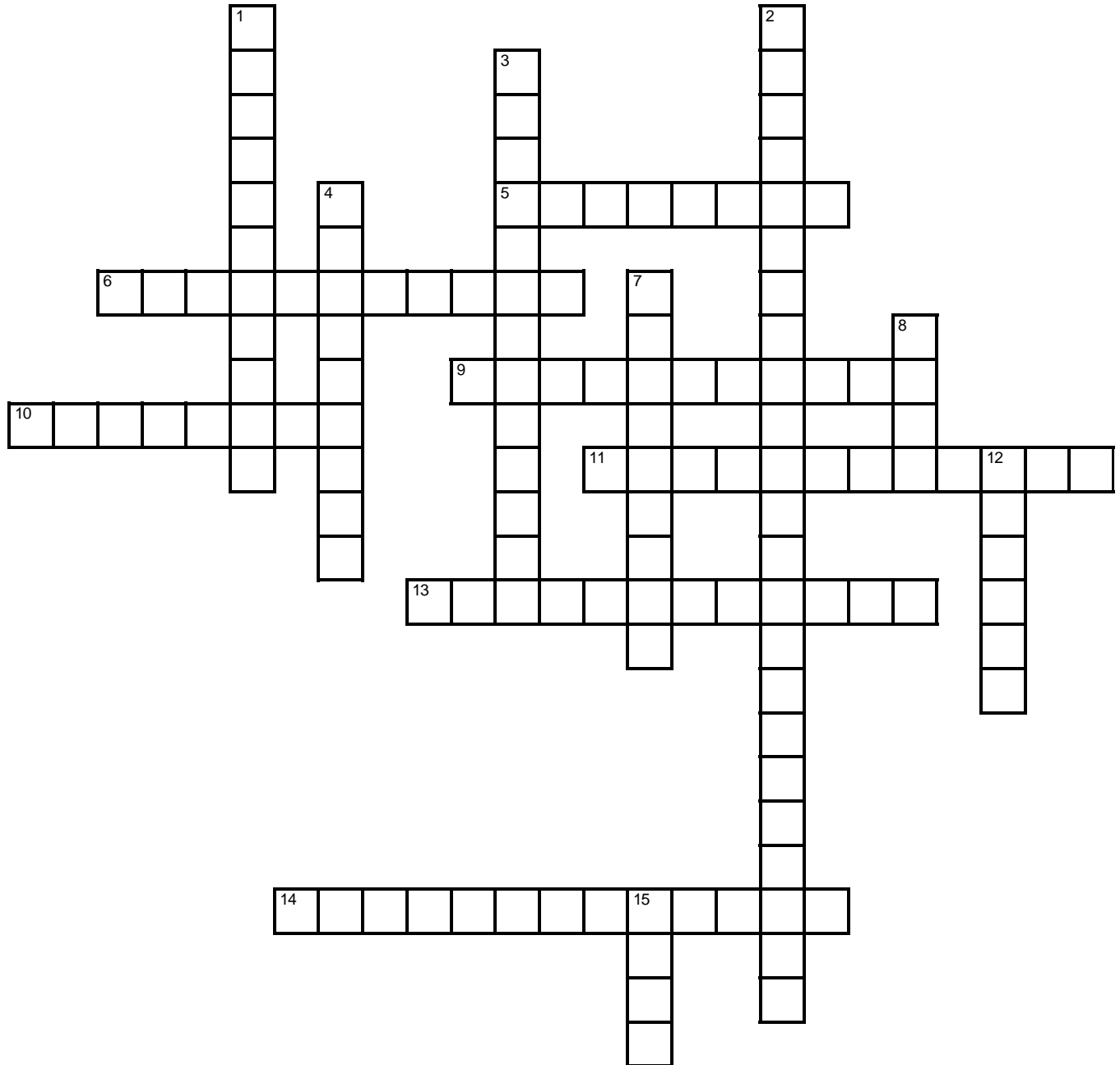


Name \_\_\_\_\_ period \_\_\_\_\_  
Nanotechnology Computer puzzle



**binary**  
**byte**  
**chromium**  
**diamagnetic**  
**iron**  
**lithography**  
**Moore's Law**  
**nanoparticles**  
**neodymium**  
**paramagnetic**  
**perpendicular**  
**platters**  
**self assembly**  
**spin coating**  
**superparamagnetic effect**

**Across**

5. \_\_\_\_ are coated with the magnetic material that hold the computer memory
6. Put a small puddle of stuff in the center of a plate & spin it at about 3000 rpm
9. A masking technique used to cut very small structures into layers
10. The only element that is antiferromagnetic at room temperature
11. Atoms come together based on their own attractions or properties
13. Materials that are affected by magnetic fields
14. Thin coatings that make up the magnetic layer on your hard drive platters

**Down**

1. Materials that are not affected by magnetic fields
2. If bits are packed too closely they start interacting with each other, which can flip the bits & corrupt data
3. The newest way to store more data is to pack the bits this way
4. Magnets containing this element have the strongest magnetism
7. The number of transistors on a chip doubles about every 2 years
8. 8 bits make up one of these
12. A code using all ones & zeros
15. An element that is ferromagnetic

