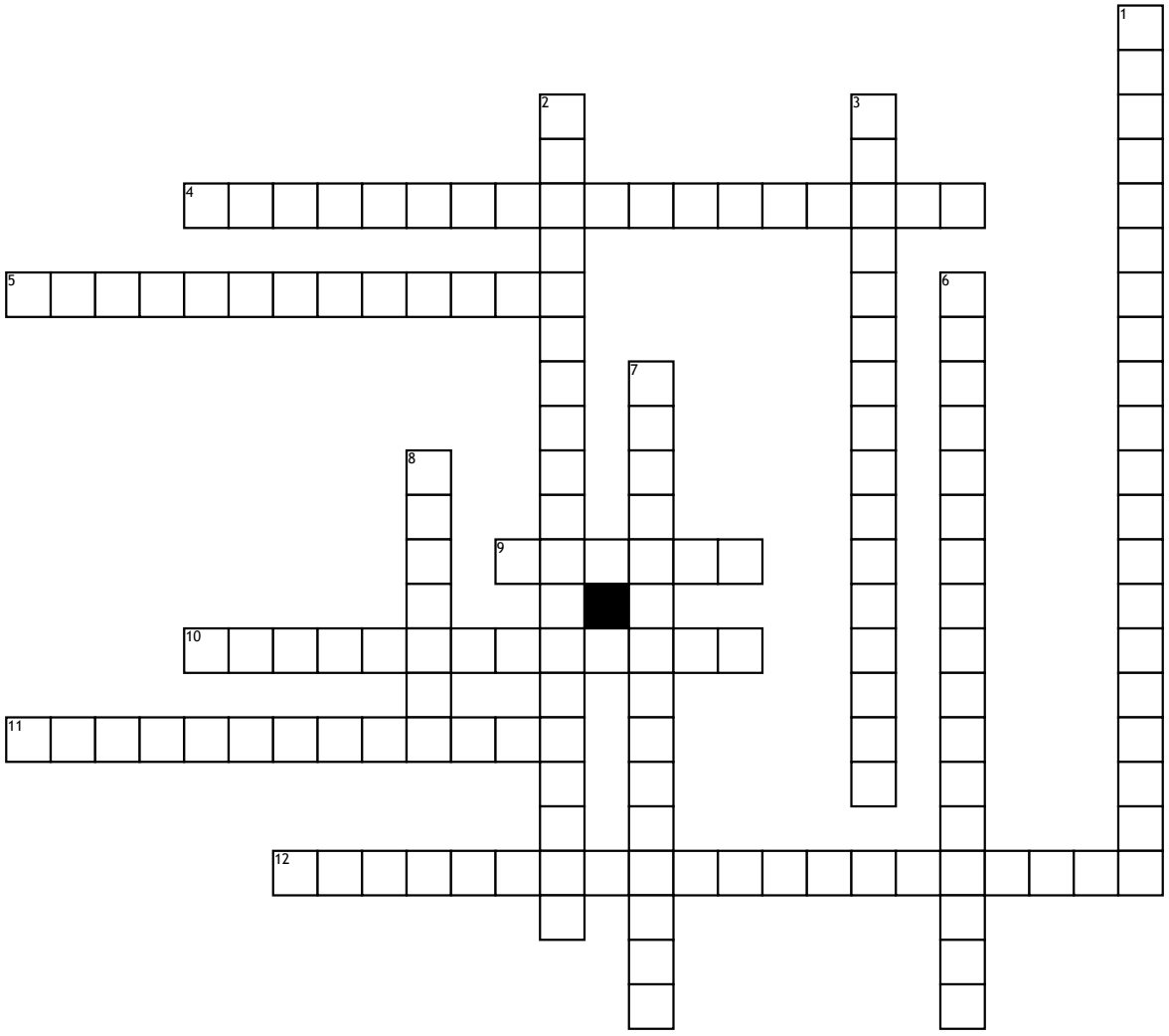
Name: _____ Date: _____

biomedical technology



Across

4. A controlled study involving human subjects, designed to evaluate prospectively the safety and effectiveness of new drugs or devices or behavioral interventions.

5. also called pure research or fundamental research, is scientific research aimed to improve scientific theories for improved understanding or prediction of natural or other phenomena.

9. performed or taking place in a living organism

10. program that is designed to simulate what might or what did happen in a situation.

11. type of computer numerical model which typically simulates atmospheric chemistry.

12. is a broad term that combines engineering and technology to solve biological or medical problems involving humans, especially the design and use of medical equipment used to diagnose and treat various diseases.

Down

1. study of the patterns, causes, and effects of health and disease conditions in defined populations

2. studies of infectious disease, such as HIV and hepatitis; neurological studies; behavior and cognition; reproduction; genetics; and xenotransplantation.

3. is a branch of healthcare science that determines the safety and effectiveness (efficacy) of medications, devices, diagnostic products and treatment regimens intended for human use.

6. is the process of using various mathematical structures - graphs, equations, diagrams, scatterplots, tree diagrams, and so forth - to represent real world situations

7. is a form of systematic inquiry involving the practical application of science.

8. are performed with microorganisms, cells or biological molecules outside their normal biological context.