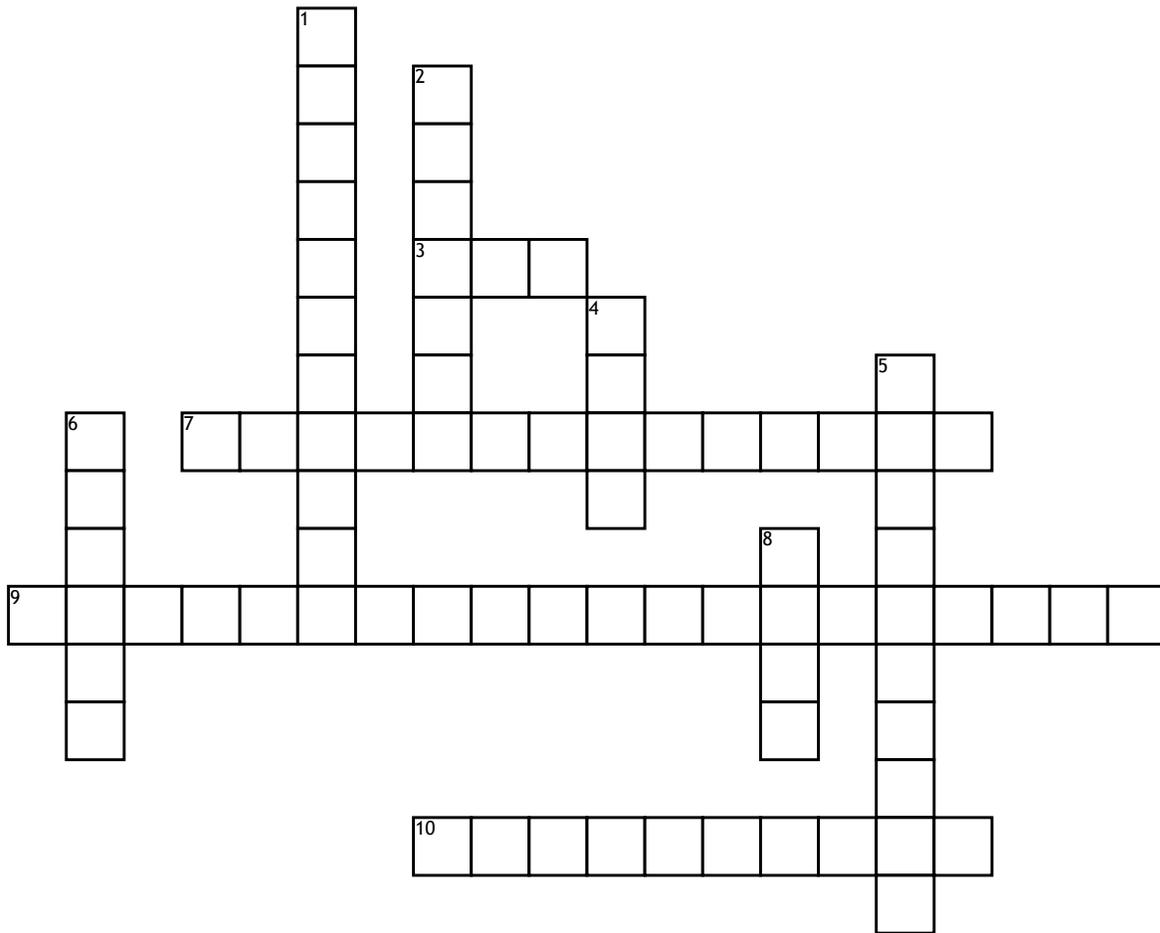


# Four Main Points of Applied Math Crossword



**Across**

- 3. Biology asks \_\_\_\_\_ kinds of questions.
- 7. \_\_\_\_\_ are ways to organize data, such as the matrix used above to describe the biological landscape.
- 9. Biological domains, or \_\_\_\_\_, include molecules, cells, tissues, organs, individuals, populations, communities, ecosystems or landscapes, and the biosphere.
- 10. are procedures for manipulating symbols.

**Down**

1. was crucial in the discovery of genes by Mendel (Orel 1984) and in the theory of evolution.

- 2. In classical times, \_\_\_\_\_, as first an applied then a basic science, stimulated enormous advances in mathematics.
- 4. The \_\_\_\_\_ main points of the applied mathematical landscape are data structures, algorithms, theories and models
- 5. These are questions, respectively, about structures, \_\_\_\_\_, pathologies, repairs, origins, and functions or purposes.
- 6. Theories and \_\_\_\_\_, including the theories of pure mathematics, are used to analyze both data and ideas.
- 8. Here are \_\_\_\_\_ biological challenges that could stimulate, and benefit from, major innovations in mathematics.