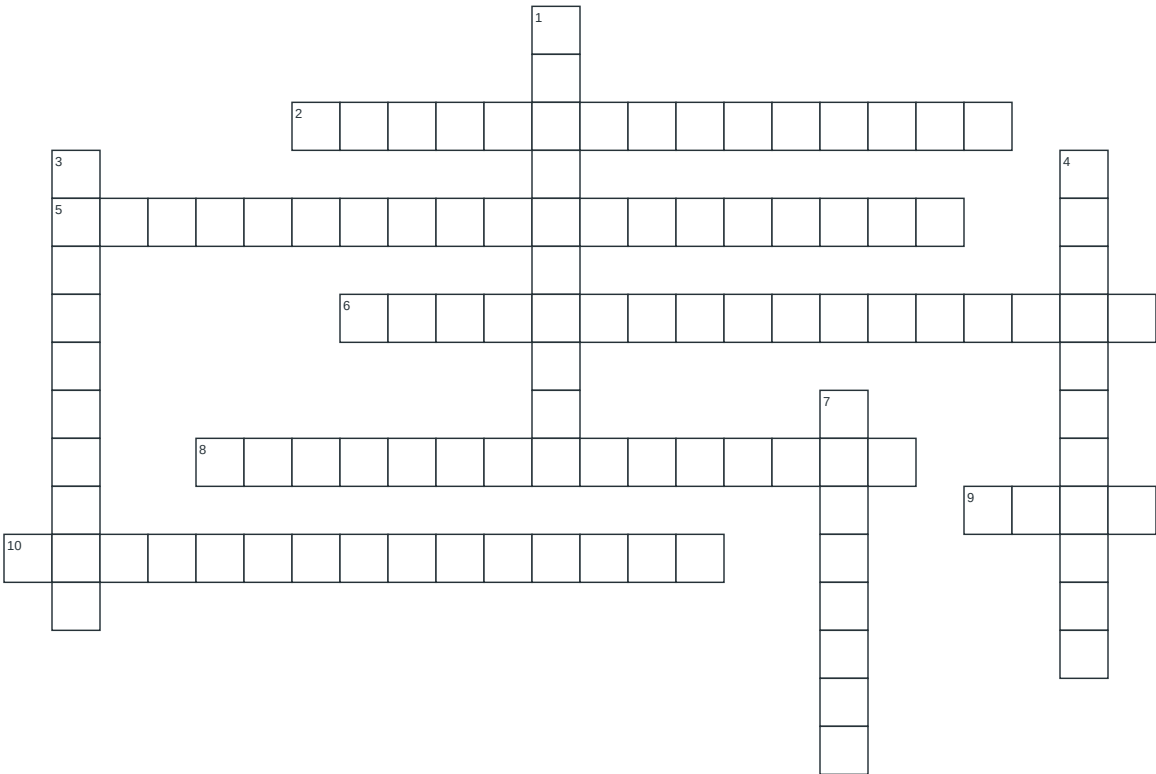


Scientific Models Crossword

Easy | 10 clues | Student Worksheet

Name: _____ Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

- 2. A representation of how components and processes relate
- 5. Factor deliberately changed by the investigator.
- 6. A representation using mathematical relationships
- 8. A condition or simplification accepted for constructing the model
- 9. Recorded observations and measurements from an investigation.

ACROSS (continued)

- 10. An expected outcome derived from the model
- DOWN

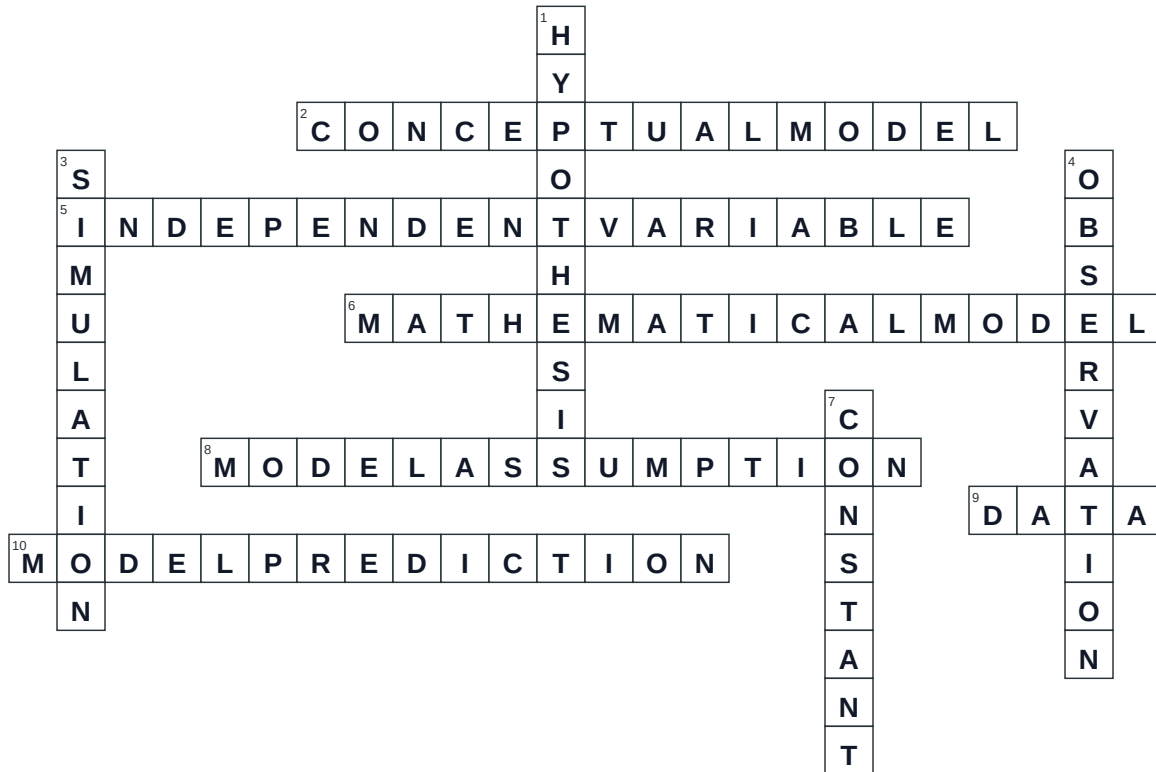
- 1. Testable proposed explanation or prediction.
- 3. A representation that imitates a system's behavior over time or under conditions
- 4. Information gathered with senses or scientific instruments.
- 7. Condition kept the same across comparison groups.

Scientific Models Crossword

Easy | 10 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

2. Conceptual Model
5. Independent Variable
6. Mathematical Model
8. Model Assumption
9. Data
10. Model Prediction

DOWN

1. Hypothesis
3. Simulation
4. Observation
7. Constant

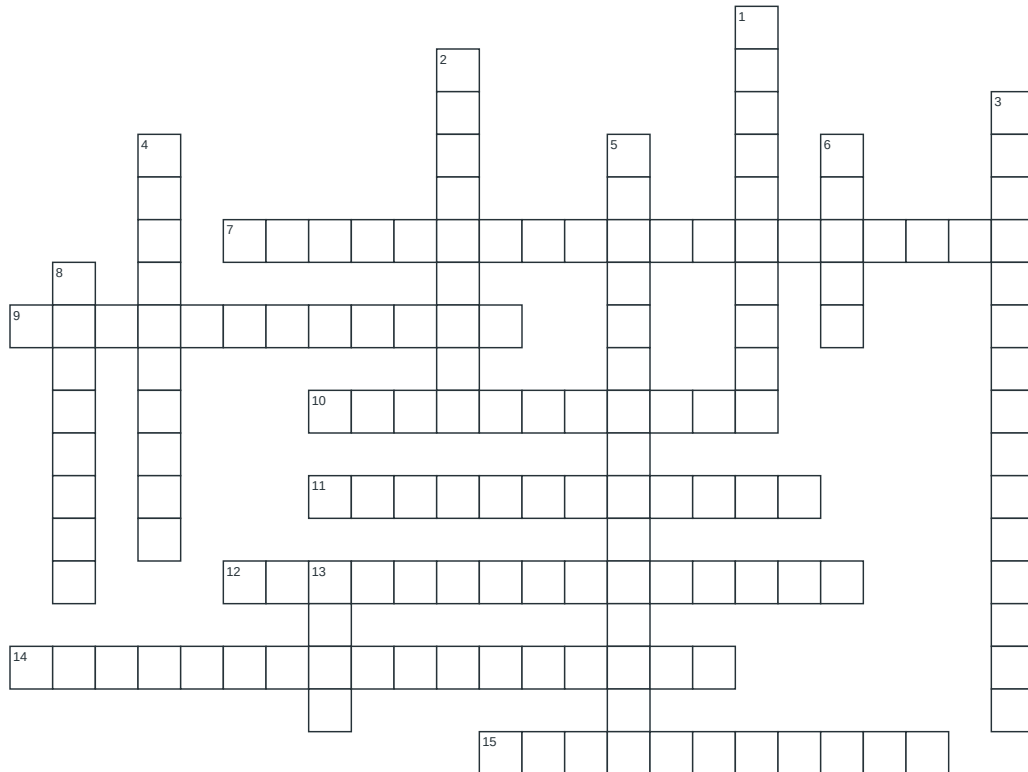
Scientific Models Crossword

Medium | 15 clues | Student Worksheet

Name: _____

Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

7. Factor deliberately changed by the investigator.
9. Comparison group that does not receive the tested treatment.
10. Information gathered with senses or scientific instruments.
11. Describes data expressed as numbers or measurements.
12. A condition or simplification accepted for constructing the model
14. A representation using mathematical relationships
15. Describes observations about qualities rather than numerical amounts.

DOWN

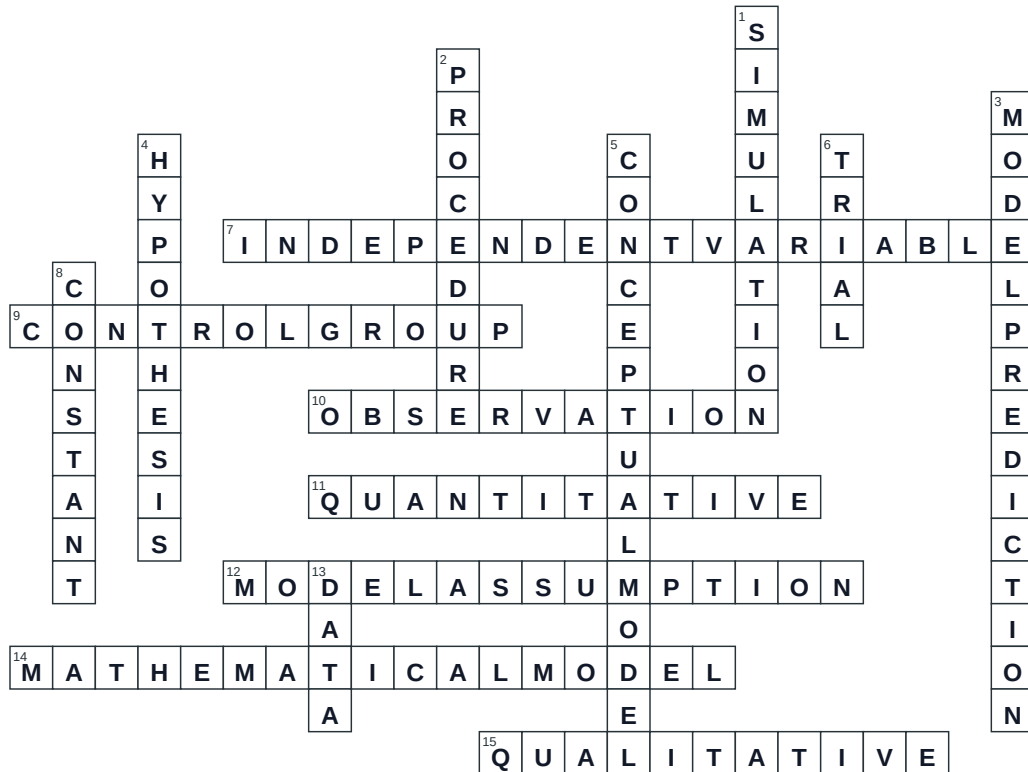
1. A representation that imitates a system's behavior over time or under conditions
2. Ordered steps used to carry out an investigation.
3. An expected outcome derived from the model
4. Testable proposed explanation or prediction.
5. A representation of how components and processes relate
6. One repetition of an experimental procedure.
8. Condition kept the same across comparison groups.
13. Recorded observations and measurements from an investigation.

Scientific Models Crossword

Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

7. Independent Variable
9. Control Group
10. Observation
11. Quantitative
12. Model Assumption
14. Mathematical Model
15. Qualitative

DOWN

1. Simulation
2. Procedure
3. Model Prediction
4. Hypothesis
5. Conceptual Model
6. Trial
8. Constant
13. Data

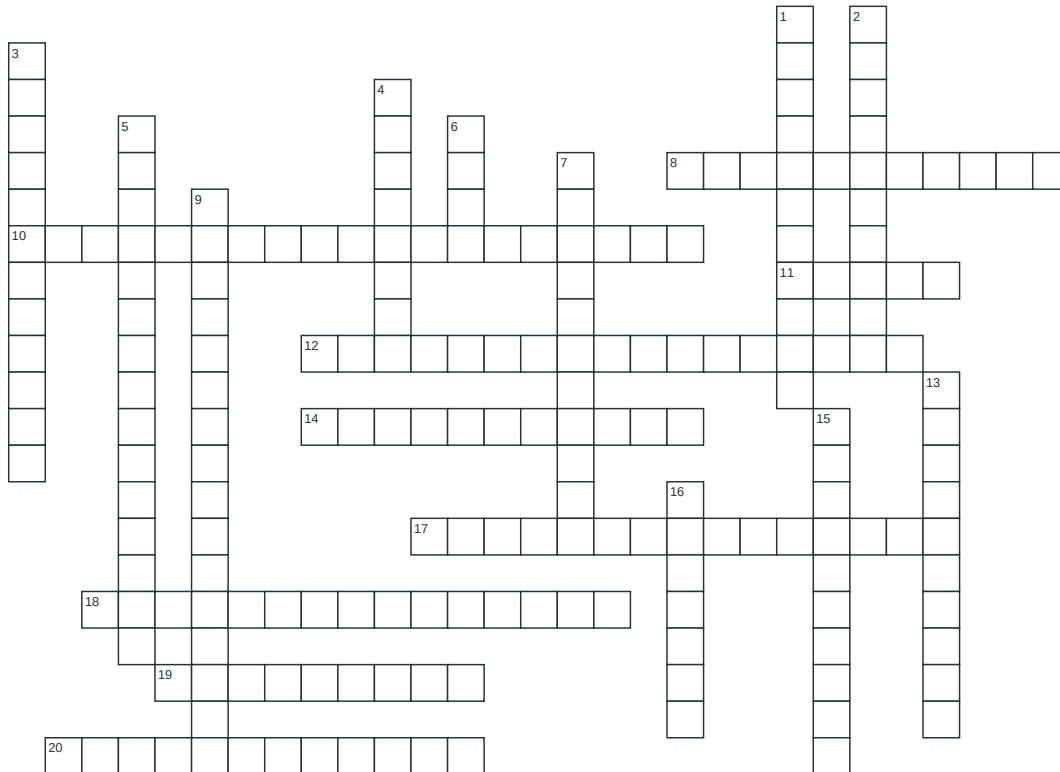
Scientific Models Crossword

Hard | 20 clues | Student Worksheet

Name: _____

Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

8. Relationship in which variables change together; alone it does not prove cause.
10. Factor deliberately changed by the investigator.
11. One repetition of an experimental procedure.
12. A representation using mathematical relationships
14. Repeating an investigation to check whether results are consistent.
17. A representation of how components and processes relate
18. A condition or simplification accepted for constructing the model
19. Ordered steps used to carry out an investigation.
20. Comparison group that does not receive the tested treatment.

DOWN

1. Information gathered with senses or scientific instruments.

DOWN (continued)

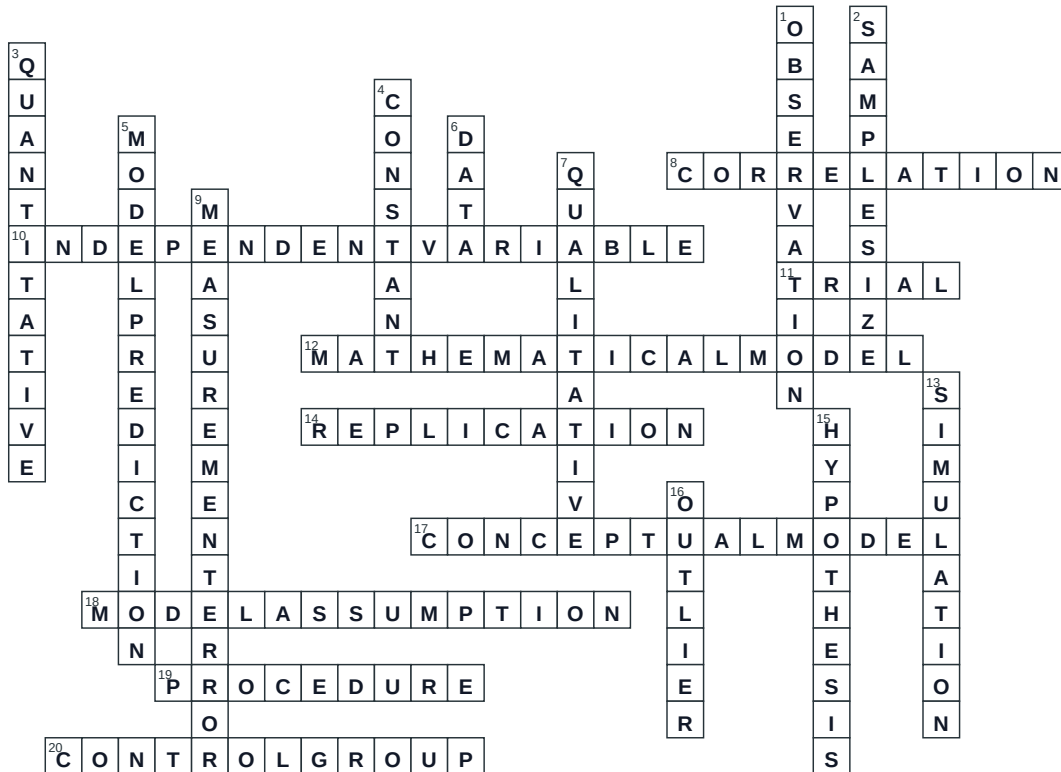
2. Number of individuals or observations included in a study.
3. Describes data expressed as numbers or measurements.
4. Condition kept the same across comparison groups.
5. An expected outcome derived from the model
6. Recorded observations and measurements from an investigation.
7. Describes observations about qualities rather than numerical amounts.
9. Difference between a measured value and the quantity's true value.
13. A representation that imitates a system's behavior over time or under conditions
15. Testable proposed explanation or prediction.
16. Data value unusually far from the rest of a set.

Scientific Models Crossword

Hard | 20 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

8. Correlation
10. Independent Variable
11. Trial
12. Mathematical Model
14. Replication
17. Conceptual Model
18. Model Assumption
19. Procedure
20. Control Group

DOWN

1. Observation
2. Sample size
3. Quantitative
4. Constant
5. Model Prediction
6. Data
7. Qualitative
9. Measurement Error
13. Simulation
15. Hypothesis
16. Outlier