# 500 act science questions to know by test day mcgraw hills 500 questions to k

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#### 500 Act Science Questions to Know by Test Day

The ACT Science section is notoriously challenging, but with the right preparation, you can conquer it. McGraw-Hill's 500 Questions to Know by Test Day provides a comprehensive review of the essential concepts tested on the exam. Here are a few key questions and answers to help you prepare:

### Paragraph 1

**Question:** Which of the following is a key feature of scientific method?

**Answer:** Controlled variables

**Question:** What is the purpose of a hypothesis?

Answer: To make a prediction that can be tested

#### Paragraph 2

Question: What type of graph is used to represent the relationship between two or

more variables?

**Answer:** Scatter plot

Question: Which of the following is a factor that can affect the rate of a chemical

reaction?

**Answer:** Temperature

#### Paragraph 3

**Question:** What is the law of conservation of energy?

Answer: Energy cannot be created or destroyed, only transferred or transformed

**Question:** Which of the following is a renewable energy source?

**Answer:** Solar power

#### Paragraph 4

Question: What is the difference between an atom and a molecule?

**Answer:** An atom is the smallest unit of matter that retains its chemical properties, while a molecule is a group of two or more atoms held together by chemical bonds

Question: Which of the following is a characteristic of living organisms?

**Answer:** Respond to stimuli

#### Paragraph 5

**Question:** What is the role of DNA in heredity?

**Answer:** It carries genetic information

Question: Which of the following is a potential benefit of genetically modified

organisms (GMOs)?

Answer: Increased crop yield

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