



Name_____

The Mythbusters follow the steps of the SCIENTIFIC METHOD to systematically test myths, legends, and rumors. Follow the myth-busting team and identify all the steps of the scientific method. The video that you are about to watch has at least five separate experiments interwoven throughout the episode. You will need to **listen carefully** to the team as they introduce each idea that they will be testing. You will choose **two** experiments to analyze.

Experiment #1:

- **STATE THE PROBLEM**

What is the first myth that you have chosen that the team is investigating?

- **RESEARCH THE PROBLEM**

What do they already know about the topic before beginning the experiment?



HYPOTHESIS

What do they think will happen?



EXPERIMENT

Planning and conducting the tests

What variables were kept constant (controlled)?

What was the independent variable (what the testers are manipulating or changing)?

What was the dependent variable (will change in response to changes in the independent variable)?

Describe the type of data that was being collected or recorded. What units of measure were used?



CONCLUSION

Was this myth busted, plausible, or confirmed?



FURTHER INVESTIGATIONS

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What was one error or problem that they encountered while testing the myth?

How did they change the experiment to overcome the problem?

What other questions if any came up as a result of this investigation?

Experiment #2

- **STATE THE PROBLEM**

What is another myth that you have chosen that the team is investigating?

- **RESEARCH THE PROBLEM**

What do they already know about the topic before beginning the experiment?

- **HYPOTHESIS**

What do they think will happen?

• **EXPERIMENT**

Planning and conducting the tests

What variables were kept constant (controlled)?

What was the independent variable (what the testers are manipulating or changing)?

What was the dependent variable (will change in response to changes in the independent variable)?

Describe the type of data that was being collected or recorded. What units of measure were used?

- **CONCLUSION**

Was this myth busted, plausible, or confirmed?

- **FURTHER INVESTIGATIONS**

What was one error or problem that they encountered while testing the myth?

How did they change the experiment to overcome the problem?

What other questions if any came up as a result of this investigation?

