Name: Name _____ **Class:** _____

Composition of a Baseball

GRADES 6-8

1. What were some of the constraints for the first baseball? Why do you think players felt they needed to make changes?

answer here

2. How has the anatomy of a baseball changed over time? What drove this change?

answer here

3. How have the materials of a baseball changed over time? How do you think the change from natural to synthetic cores impacted play?

answer here

4. Explain the importance of the governing bodies setting clear criteria for the baseball's design?

answer here

5. How did Major League Baseball ensure that all baseballs were the same size in 2011? In 1974? Why was this important to the game?

answer here

6. What is the purpose of this article? Provide evidence from the text to support your claim.

answer here

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Name: Name _____ Class: _____

Composition of a Baseball

GRADES 6-8

Using the article and classroom discussion, fill in the following criteria and constraints table.

Criteria	Constraints
answer here	answer here

	Distance of Hit 1	Distance of Hit 2	Distance of Hit 3	Distance of Hit 4	Distance of Hit 5
Baseball	answer here	answer here	answer here	answer here	answer here
Tennis Ball	answer here	answer here	answer here	answer here	answer here
Softball	answer here	answer here	answer here	answer here	answer here
Golf Ball	answer here	answer here	answer here	answer here	answer here

Name: Name _____ **Class:** _____

Composition of a Baseball

GRADES 6-8

Based on evidence from the article and your experiment, write a claim and support it with evidence and reasoning, explaining how and why a baseball behaves differently than a tennis, softball, and golf ball.

Claim: How did the evolution of the baseball create a design that has a different function than a tennis ball, softball and golf ball?

answer here

Evidence: Record and reference in words any data that supports your claim.

answer here

Reasoning: Explain why your claim is supported by evidence and scientific ideas. Use the ideas in your test and your understanding of engineering an object for a specific function.

answer here

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