Appendix AE: CATs Scholar Assessment for Cougar Kids Academy Participants

Blood Splatter Patterns
1. Describe the relationship between the height of the blood splatter and the size of the splatter?

2. How does this experiment help you solve the mystery?

DNA Extraction
3. Describe the process of extracting DNA?

4. How does large-scale DNA from the strawberry reflect the tiny DNA in our cells?
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Encryption Code
5. What is an encryption code?

6. How do you translate a message written in code?

Fingerprint Lab
7. What is a fingerprint and how can you lift it?

8. What types of features exist that make each person’s fingerprint unique?

Hair Analysis
9. What general characteristics exist for all human hair?

10. Is it possible to specifically identify an offender from a sample of hair?
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Chromatography
11. What does the word chromatography mean?

12. How does this experiment help you determine which pen belongs to the offender?

Mystery Solutions
13. How do you describe a chemical reaction in terms of color and clarity?

14. How does the mystery solutions lab help you to solve the crime?