

**Setting:** \_\_\_\_\_

1-List the permanent characters of Buckboard and how they relate to one another, primarily the DeLuce family and their staff.

2. Flavia has access to her Great Uncle's chemistry lab. What types of equipment does Flavia have in her lab as she describes. What is each type of equipment used for? What does Flavia want for Christmas?

<u>Equipment</u>	<u>Use</u>
------------------	------------

3. Flavia has quite a working knowledge of poisons and mentions them quite frequently. List all the poisons that Flavia mentions, and what the effects of administering such poisons would have on humans.

4. Flavia mentions hypo nitric acid. What is the chemical formula of it and what are its qualitative characteristics (what would it do if someone were exposed to it)?

5. When the body of the actress is found, where are the petechiae that Dogger finds? What would cause such an injury?

6. Flavia has a surprise planned for St. Nicholas. She wants to capture him using birdlime glue. What is the glue that she is referring to made of and how did she make it? (Describe in detail) Was it effective?

7. Flavia has a big surprise planned for Christmas. She has worked in her lab to make fireworks to set off from the roof to celebrate. Research the history of fireworks and write a 2-page summary of the history and what chemicals are needed to produce various colors in fireworks. Please cite your sources. Also, describe what a flame test is.