**Fiber: Fluorescence & Burn Test**

Name:

**Pre-lab research**

Tomorrow we will be comparing different fiber

**Materials Needed**

* **Pen/Pencil**
* **Text Book**
* **Internet Source**
* **Our forensic webpage**

**Google: *Meet the teacher gellner***

types based on the fibers characteristics. We will

use A fluorescence and burn test to analyze the

different fibers. Before we conduct our analysis,

we must first do some background research.

**Burn Tests** page 143

1. What are the three characteristics forensic Investigators look at when fibers burn?

**YouTube Video**

* Let’s look at the distinctive characteristics fibers

**How to find the correct Youtube Video**

**Google: *Meet the teacher gellner***

**Click on the first link**

**Click on the *Forensic Science Tab***

**Click on *Links***

**Click on *Burn Test Video***

give off when they burn

* As you watch the video, fill in the chart below.

You might have to pause the video or rewind to

catch all the information.

* Describe Each Characteristics as you watch

the video

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Burn** | **Smell** | **Ash** |
| Cotton |  |  |  |
| Flax |  |  |  |
| Wool |  |  |  |
| Silk |  |  |  |
|  |  |  |  |
|  | **Burn** | **Smell** | **Ash** |
| Rayon |  |  |  |
| polyester |  |  |  |
| Nylon |  |  |  |
| Acrylic |  |  |  |
| acetate |  |  |  |

1. Based on what you saw in the video, briefly describe how to perform a “Fiber Burn Test.” Be specific, but brief.

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**Fluorescence** page 150

1. How can forensic scientist get fibers to fluoresce?
2. Fluorescence can be caused by (list at least 4 different causes):
3. What are Optical Brighteners and how can they influence a fluorescence test?