MESA DAY 2026-2027

SCIENCE LAB BOOK REQUIREMENT
CRIME SCENE SCIENCE
MIDDLE SCHOOL TEMPLATE

NAMES:_____
(team member names)

SCHOOL:_____

CENTER: _____

LEVEL (circle one): 6th gr 7/8th gr

*Changes, if any, are highlighted in "yellow."

USING ONE TO TWO SENTENCES, ANSWER THE FOLLOWING QUESTIONS:

What are the 6 major steps to solving a crime scene?

What are the 3 basic fingerprint pattern types, and how are they described?

Lift your own fingerprint using a pencil and tape. Please draw a representation of your own fingerprint, and identify the fingerprint pattern in your electronic science journal.

1. **SKETCH of DNA with labeled parts (Sketches can be hand drawn or computer generated)**

   Adenine
   Thymine
   Guanine
   Cytosine
   Sugar phosphate backbone

2. **DEFINE THE FOLLOWING FORENSICS TERMS AND PROVIDE ONE (1) EXAMPLE FOR EACH OF THE FOLLOWING:**

   Trace evidence

Locard's Exchange Principle

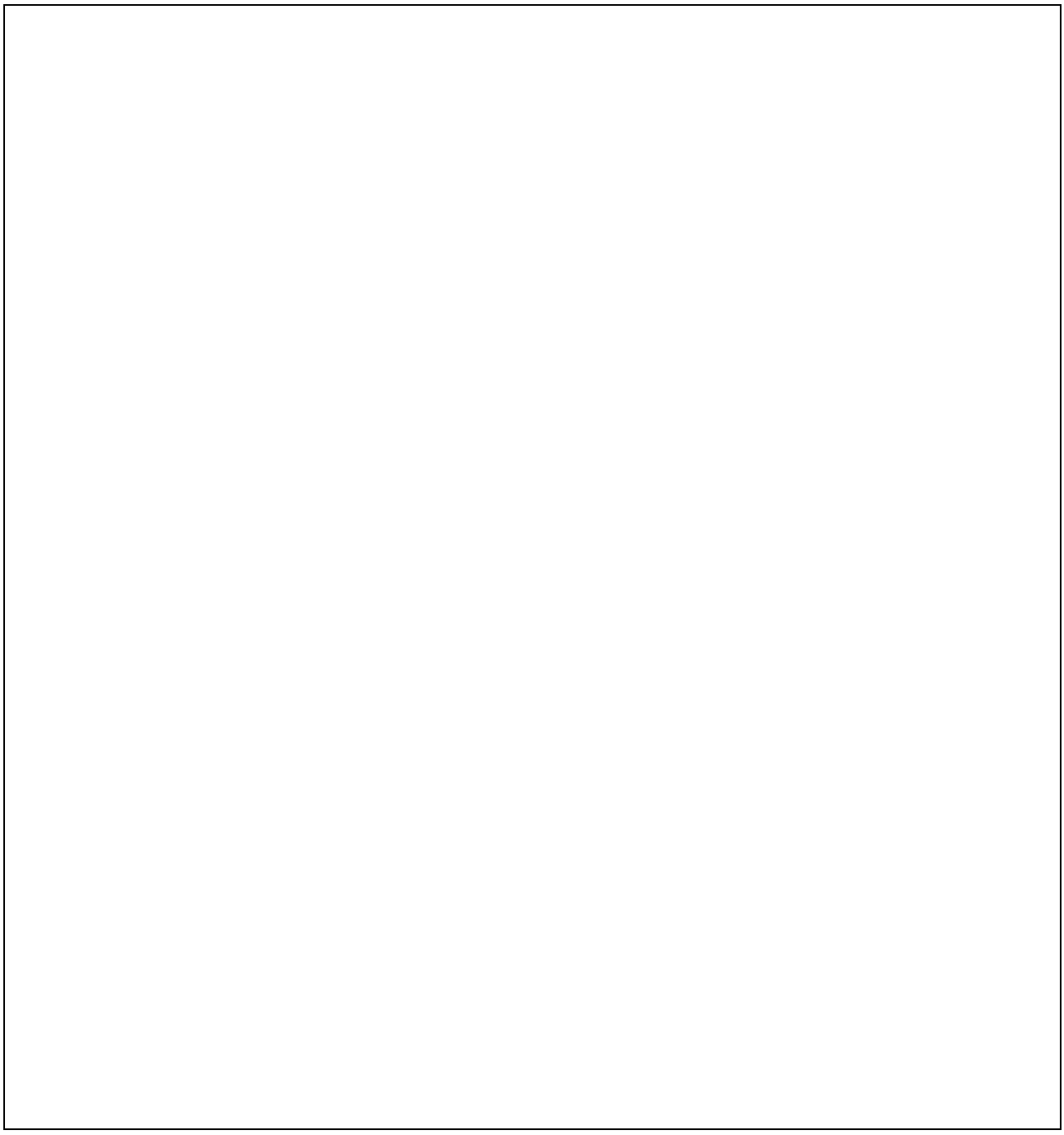
Testimonial evidence versus Physical evidence

3. **MEASUREMENTS & ANALYSIS IN FORENSICS. ANSWER THE FOLLOWING QUESTIONS BELOW USING TWO TO THREE SENTENCES.**
    - *For the math answer, you must include the steps you took to get your answer. This includes writing down calculations, diagrams, equations, or explanations [MUST be original work]

When measuring a footprint, what tools would you use, and what could it help estimate?

*If a footprint is 26 centimeters long, approximately how tall is the person? Please show all your work for your answer.**

How can hairs or fibers be identified under a microscope?

4. **SKETCH OF MICROSCOPE WITH LABELED PARTS (SKETCHES CAN BE HAND DRAWN OR COMPUTER GENERATED [MUST BE ORIGINAL WORK])**

Arm Head Ocular Lens/Eyepiece
Objective Lens Slide Holder Clips Focus adjustment knob
On/Off Switch Illuminator/Light Source Base
Stage