

**MESA DAY 2022-23**

SCIENCE LAB BOOK REQUIREMENT

CRIME SCENE SCIENCE

**MIDDLE SCHOOL TEMPLATE**

NAMES:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 *(team member names)*

SCHOOL:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CENTER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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



1. **USING ONE TO TWO SENTENCES,** **ANSWER THE FOLLOWING QUESTIONS:**

*How many genes do humans have?*

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*What is a Chromosome?*

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*Are children identical to their parents? Why or why not?*

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

*Adenine*

*Thymine*

*Guanine*

*Cytosine*

*Sugar phosphate backbone*

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

*Phenotype*

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*Genotype*

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|  |

*Punnett Square*

Please use parents Xx and Yy for your example (this counts as your example, no need to create another)

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1. **USING TWO TO THREE SENTENCES, WHAT ARE THE DIFFERENCE BETWEEN ANIMAL AND PLANT CELLS?**
* Please include a sketch of an animal and plant cells and label all parts and highlight the differences between them (sketches can be hand drawn or computer generated (MUST be original work))

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| *Difference between animal and plant cell:**Sketch of animal and plant cell:* |

1. **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

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