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BIOLOGY - PROBLEM SET

CHAPTERS 11 & 14: HEREDITY

IN ORDER TO RECEIVE FULL CREDIT FOR ANSWERS, YOU MUST DO ALL OF THE UNDERLINED WORDS IN EACH QUESTION.

- 1. <u>Identify</u> and <u>describe</u> two specific examples of **levels of organization** that relate to a topic in chapters 11 & 14. [2 points]
- 2. <u>Identify</u>, <u>describe</u>, and <u>draw</u> one example of a **lock-and-key fit** OR a **structure-function relationship** OR a **surface area to volume ratio** that relates to a topic in chapters 11 & 14. [3 points]
- 3. <u>Identify</u> and <u>describe</u> one example of **matter** OR **energy** that relates to a topic in chapters 11 & 14. [1 point]
- 4. <u>Identify</u> and <u>describe</u> one example of **evolution** that relates to a topic in chapters 11 & 14. [2 points]
- 5. *Describe* and *interpret* the meaning of the following chart: [2 points]

Character	Dominant Trait	×	Recessive Trait	F ₂ Generation Dominant: Recessive	Ratio
Flower color	Purple	×	White	705:224	3.15:1
Seed color	Yellow	×	Green	6,022:2,001	3.01:
Seed shape	Round	×	Wrinkled	5,474:1,850	2.96:1
Pod shape	Inflated	×	Constricted	882:299	2.95:1
Pod color	Green	×	Yellow	428:152	2.82:1
Flower position	Axial	×	Terminal	651:207	3.14:1
Stem length	Tall	×	Dwarf	787:277	2.84: