Name	Date	Period	
Hallic	Dutt	1 61100	

BIOLOGY - PROBLEM SET

CHAPTERS 11 & 14: HEREDITY

- 1. <u>Identify</u> and <u>describe</u> two specific examples of levels of organization that relate to a topic in chapters 11 and 14. [2 points]
- 2. <u>Identify</u>, <u>describe</u>, and <u>draw</u> one example of a structure-function relationship OR a lock-and-key fit that relates to a topic in chapters 11 and 14. [3 points]
- 3. <u>Identify</u>, <u>describe</u>, and <u>draw</u> one example of surface area to volume ratio that relates to a topic in chapters 11 and 14. [3 points]
- 4. <u>Identify</u> and <u>describe</u> one example of matter or energy that relates to a topic in chapters 11 and 14. [2 points]
- 5. <u>Identify</u> and <u>describe</u> one example of evolution that relates to a topic in chapters 11 and 14. [2 points]
- 6. <u>Describe</u> and <u>interpret</u> the meaning of the following chart: [3 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	3.01:1
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	2.84:1