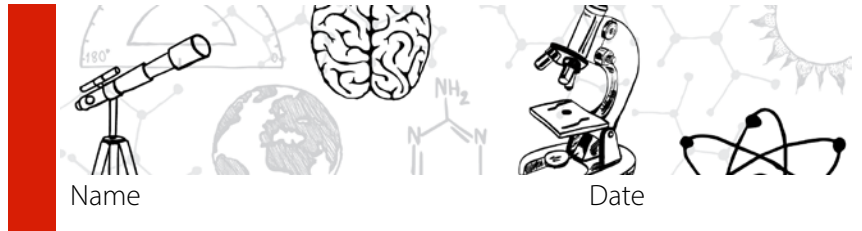


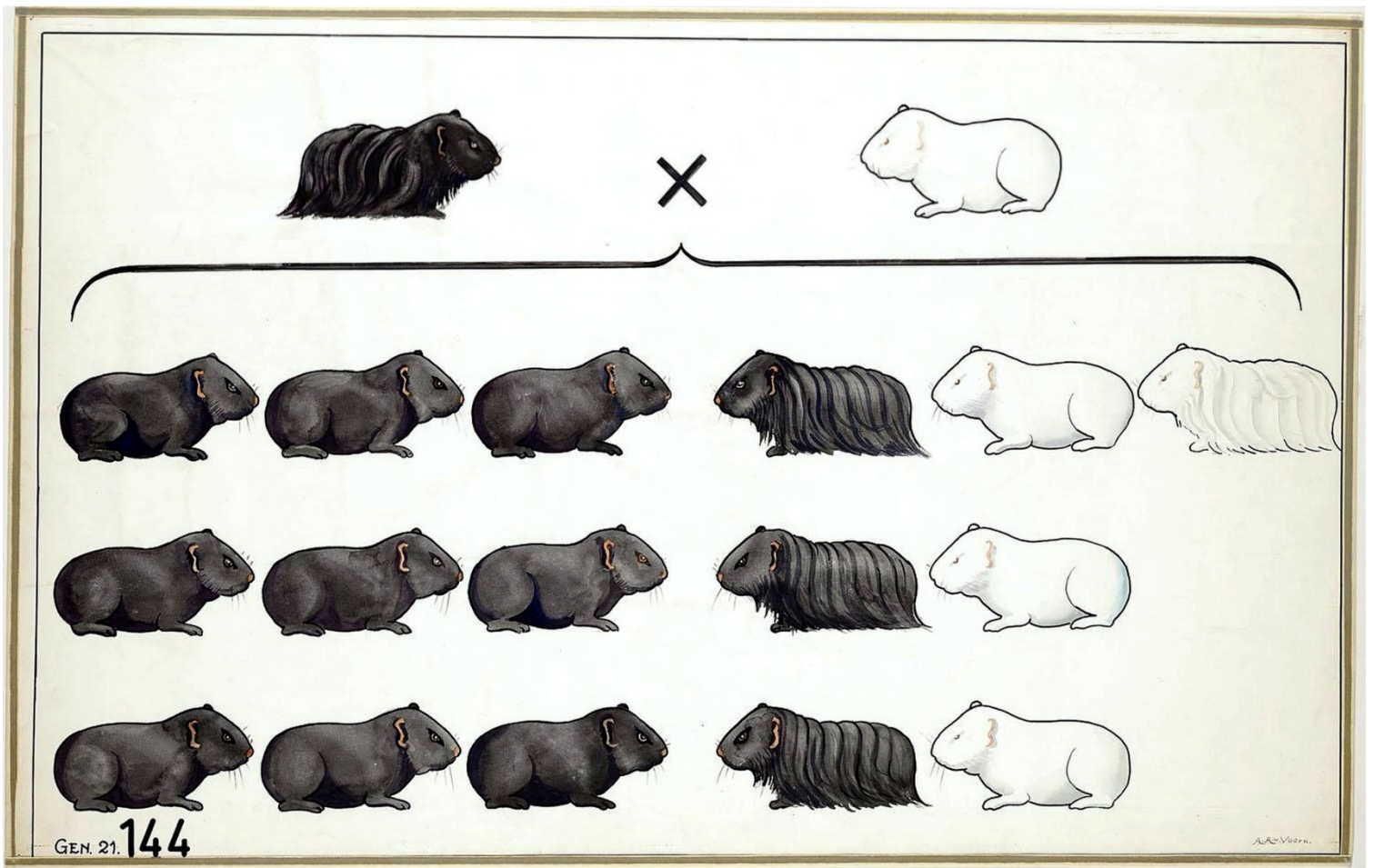
# Barbara McClintock

## Unit Assessment



➔ **Directions:** Analyze the diagram below. It shows two guinea pigs and their offspring.

Focus your observations on patterns: what traits make the guinea pigs the same or different from one another? Think about what these patterns show us about genetics and inheritance of traits. Then answer the questions on the next page.



[ Image Credit | Public Domain ]

➡ **Part A:** Using the information provided in the diagram, create a bar graph that shows the number of offspring who inherited each trait.

**Traits Inherited by Guinea Pig Offspring**



➡ **Part B:** Which statement is supported by the graph in Part A?

- Guinea Pigs are more likely to inherit white fur than black fur.
- Guinea Pigs are more likely to inherit short fur than long fur.
- Guinea Pigs are equally likely to inherit black or white fur.
- Guinea Pigs are more likely to inherit their father's traits than their mother's.

➡ **Part C:** Read the claims below. Support each claim with evidence from the diagram and graph.

**1. Animals have traits inherited from their parents.**

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**2. Variations among traits can exist between offspring of the same parents.**

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