

Article-Based Observation: Q

Directions: These questions are based on the article "[An open book](#)." Due to the quantity of content, students should divide into five groups after reading the article, with each group concentrating on one application of genetic testing. The applications are:

- Group A: Uncovering interesting trivia about your traits
- Group B: Identifying mutations associated with serious diseases
- Group C: Assessing risk of passing along disease-associated mutations to children
- Group D: Tailoring lifestyle choices
- Group E: Predicting drug reactions

Each group should answer the following questions, focusing specifically on the assigned application in Questions 5–8. After moving on to Question 9, each group can also share what it has learned with the rest of the class.

1. Name a few companies that offer direct-to-consumer genetic testing. How many people sent DNA samples to such companies in 2017?

2. Explain the differences between the types of DNA tests described in "How much gets tested?"

3. What are currently available direct-to-consumer genetic tests used for?

4. How much does whole genome sequencing cost?

5. What genetic testing application is your group responsible for? In what section(s) of the article did you find relevant information?

6. As it relates to your assigned application, what are some things that you could learn from genetic testing?

7. What data does the article present for your assigned application?

8. What are some limitations of direct-to-consumer genetic testing?

9. After your classmates have shared the information about their applications, summarize the article in two sentences or less?

10. What questions do you still have after reading the article?