

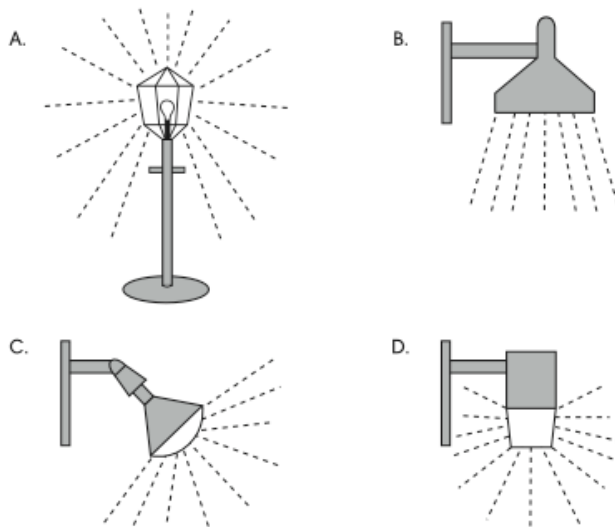
Question 2
Benchmark A
9th Practice Test

Architects are working with engineers to build a lecture hall. How can they design it so that echoes are reduced and speech is **not** heard as garbled sounds?

- A. build smooth marble walls, ceilings and polished floors
- B. construct many flat walls, angled ceilings and smooth floors
- C. use an ultramodern design of metal walls, pillars and seats
- D. build walls out of porous materials, upholster the seats and add carpets

Question 41
Benchmark A
Spring 2005

41. Artificial light at night can negatively impact wildlife. Which outdoor light design minimizes the effect of the light on wildlife?



10th Grade Science Ohio Graduation Test
Science and Technology

Question 24
Benchmark B
9th Practice Test

24. Biotechnology is the science of manipulating biological components to develop products that may be beneficial to humans. Identify two different industries in which biotechnology has made major contributions. Describe one contribution for each industry. Respond in the space provided in your **Answer Document**. (4 points)

Question 24
Benchmark B
Spring 2005

24. In 1960, physicist Theodore Maiman constructed the first working laser. This design was improved upon by Bell Telephone Laboratories in 1961. Since then, lasers have been found to have a wide variety of applications. Identify one application of laser technology and explain how this application has impacted society. Respond in the space provided in your **Answer Document**. (2 points)

Question 40
Benchmark B
Spring 2005

40. Hydroelectric power is considered a "clean" energy source because it
- A. is available in most areas.
 - B. increases the amount of power available.
 - C. does not produce the pollutants that burning fossil fuels do.
 - D. requires minimal investment in equipment.