QUARTERLY 1

The following footwear is the BEST in the laboratory

- close-toed shoes ✔
- open-toed shoes
- shoes appropriate for the weather
- flip flops

Horseplay or practical jokes in the laboratory are

A	okay if you are working alone	
B	not dangerous	
C	always against the rules	✔
D	okay	

Work areas should be kept neat and organized during lab and cleaned after lab is complete

A	False	
B	True	✔

If your instructor is not present, you should start lab anyway

A	True	
B	False	✔

Approved eye protection devices, such as safety glasses or goggles, need to be worn in the laboratory

A	any time chemicals, heat, glassware, or other possible hazards are present	✔
B	only if you do not have corrective glasses	
C	to improve your vision	
D	to avoid eye strain	

If you are ever hurt in the laboratory (cut, burned, etc) then you should first

A	apply first aid	
B	see a doctor after lab	
C	tell your instructor at once	✔

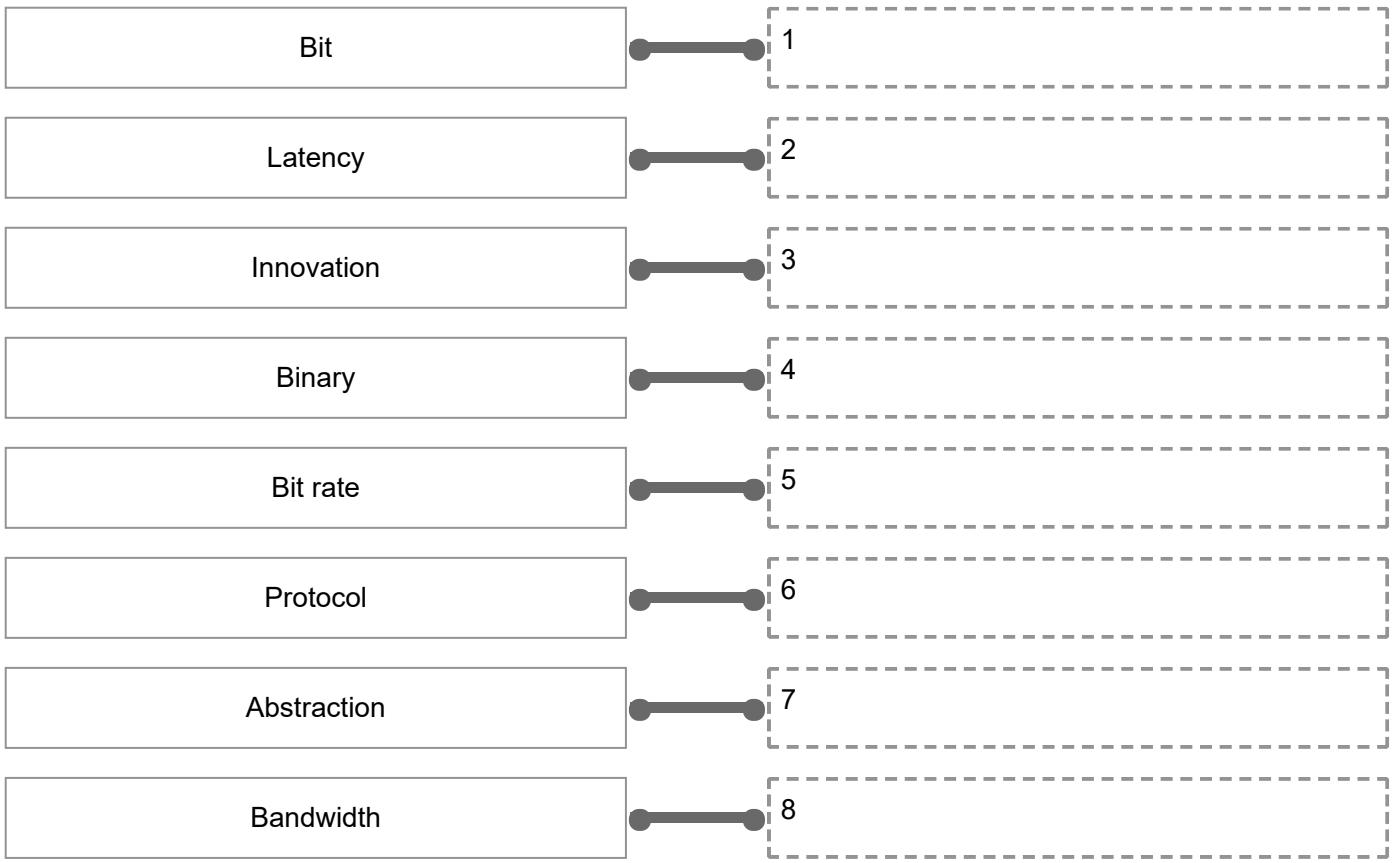
Read all procedures before starting lab

A	False	
B	True	✔

Your teacher assigns you a course to complete with your push button robot. Each second that the robot moves forward it moves 1.4 cm along the track and corresponds with 1 push. If the first part of the track is straight for 5 inches how many times would you have to push the forward button to move it 5 inches.

- 11
- 10
- 8
- 9 ✔

Match the following word to the definition that is a best fit.



A way of representing information using only two options.

A new or improved idea, device, product, etc, or the development thereof

A contraction of "Binary Digit"; the single unit of information in a computer, typically represented as a 0 or 1

Time it takes for a bit to travel from its sender to its receiver.

a simplified representation of something more complex. Abstractions allow you to hide details to help you manage complexity, focus on relevant concepts, and reason about problems at a higher level.

A set of rules governing the exchange or transmission of data between devices.

Transmission capacity measure by bit rate

(sometimes written bitrate) the number of bits that are conveyed or processed per unit of time. e.g. 8 bits/sec.

Correct answers:

1 A contraction of "Binary Digit"; the single unit of information in a computer, typically represented as a 0 or 1

2 Time it takes for a bit to travel from its sender to its receiver.

3 A new or improved idea, device, product, etc, or the development thereof

4 A way of representing information using only two options.

5 (sometimes written bitrate) the number of bits that are conveyed or processed per unit of time. e.g. 8 bits/sec.

6 A set of rules governing the exchange or transmission of data between devices.

7 a simplified representation of something more complex. Abstractions allow you to hide details to help you manage complexity, focus on relevant concepts, and reason about problems at a higher level.

8 Transmission capacity measure by bit rate

You are hired by a technology firm to evaluate their new cell phone. The cell phone is revolutionary in that its battery life is almost indefinite and its weight is within the average of cell phones on the market. The price of the revolutionary phone is almost double that of the competitors. You decide to make a chart to evaluate the products on the market (pick two popular phones) in comparison to the new cell phone. Write how you would evaluate it and make up your evaluation chart given only the information that was given to you? What variables would you put in the x and y axis?

END OF ASSESSMENT