

Prototyping Boards (27:48)

Describe the purpose of a prototyping board.

Define how points in a prototyping board are identified.

Identify the resistance of an open/not connected. Identify the resistance of a short/connected.

Identify the relationship between binding post and bus strips for a typical prototyping board.

Identify how to electrically connect a binding post and a bus strip on a prototyping board.

Describe the purpose of bus strips on a prototyping board.

Identify the relationship of the points 1A, 1B, 1C, 1D, and 1E.

Identify the relationship between node 1A-E and 1F-J.

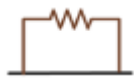
Identify the relationship between node 1A-E and 2A-E.

Draw a simplified map of the connected points on a prototyping board.

Identify how components are installed on protoboards.

Draw two ways (horizontal/vertical) to install a single resistor on prototyping board.

Identify why a component would never be installed on a prototyping board in the following fashion.



Draw two ways (horizontal/vertical) to install a series arrangement of 3 resistors on prototyping board.

Identify the consequences of opens inside a series circuit.

Identify the consequences of a shorted resistor inside a series circuit.

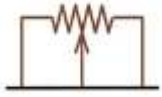
Draw two ways (horizontal/vertical) to install a parallel arrangement of 3 resistors on prototyping board.

Identify the consequences of opens inside a parallel circuit.

Identify the consequences of a shorts inside a parallel circuit.

Identify how to install a 3 terminal potentiometer on a prototyping board.

Identify why a potentiometer would never be installed on a prototyping board in the following fashion.



Identify how to install DIP components and switches on a prototyping board.