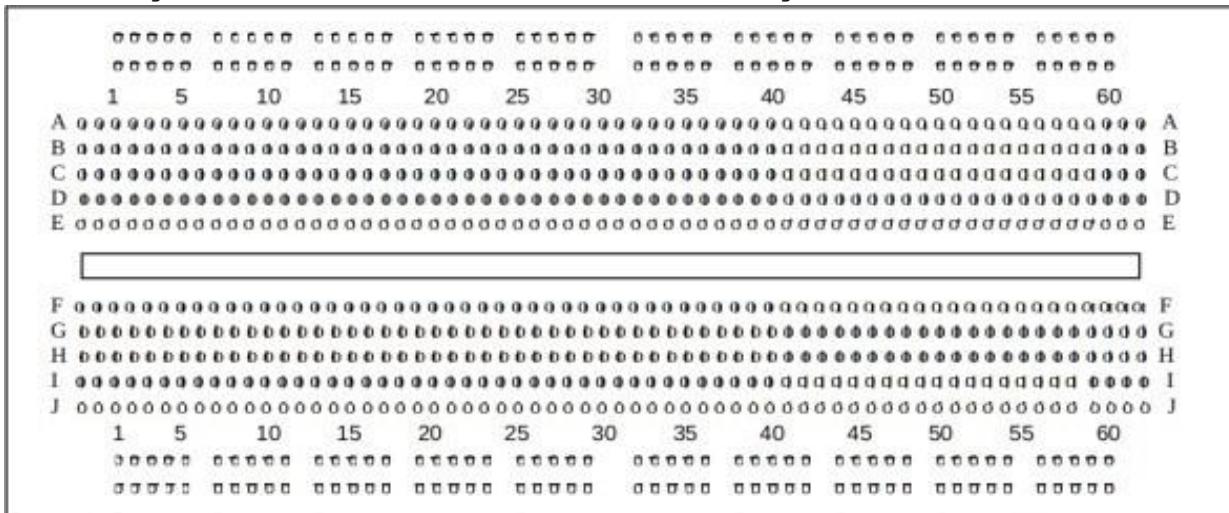


this session is planned to introduce the following

- breadboard
- direct current signal
- alternate current signal
- multimeter
- oscilloscope
- light emitting diode

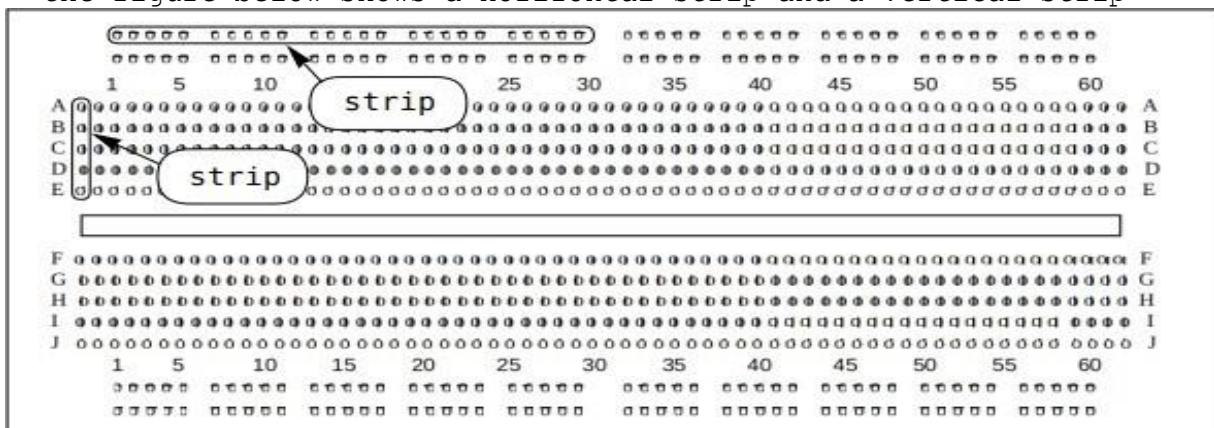
breadboard

- the figure below shows how a breadboard might look like



- holes in breadboard might get regarded as being grouped in groups
- each group might get called strip
- holes on each strip might get regarded as being connected from electrical point of view

- the figure below shows a horizontal strip and a vertical strip



## electric current and voltage

- the term electric current might get used to indicate what?
- the term voltage might get used to indicate what?
- the term direct current might get used to indicate what?
- the term alternate current might get used to indicate what?
- which device in the laboratory might get used as a source of a direct current signal?
- which device in the laboratory might get used as a source of an alternate current signal?
- which symbol might get used to represent a source of direct current signal?
- which symbol might get used to represent a source of alternate current signal?

## multimeter

- the term multimeter might get used to indicate what?
- how a multimeter might get used to measure electric current?
- how a multimeter might get used to measure the resistance of an electric resistor?
- how a multimeter might get used to measure voltage?
- how a multimeter might get used to check whether two points are connected from electrical point of view?
- the term short circuit might get used to indicate what?

## oscilloscope

- the term oscilloscope might get used to indicate what?
- how the amplitude of an alternate current signal might get measured?
- how the period of an alternate current signal might get measured?

## light emitting diode

- the term light emitting diode might get used to indicate what?
- how a light emitting diode might get used?
- which symbol might get used to represent a light emitting diode?