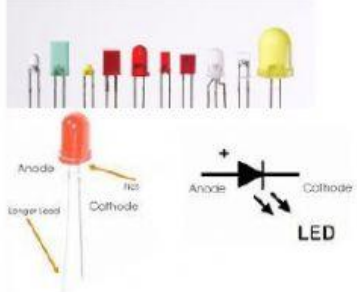
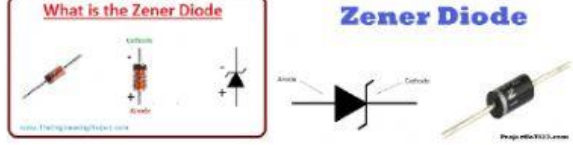


This Worksheet provides evidences for the GC 1.8

GC	GC1.8	Describe at least four different types of diodes, their function, applications, and symbols. The types include, single diode, LED, Photodiode and Zener diode.
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Q1) Match the diode type with its applications.

No.	Diode type	No.	Application
1	 The image shows a standard diode with its cathode and anode leads, a light-emitting diode (LED), and their respective circuit symbols. The diode symbol has a triangle pointing to a vertical line, with 'Anode (+)' and 'Cathode (-)' labels. The LED symbol has two arrows pointing away from the vertical line, with 'Anode (+)' and 'Cathode (-)' labels.		Used as indicator in electronic devices and the powerful type is used as low consumption light source.
2	 The image shows several LEDs of different colors (red, yellow, green, blue, white) and their circuit symbols. The LED symbol is a triangle pointing to a vertical line with two arrows pointing away from the line, labeled 'Anode' and 'Cathode'.		Used to rectify AC power signals into DC. It could be also used for protecting circuits from high reverse currents.
3	 The image shows several Zener diodes of different packages (axial, TO-18, TO-18, TO-18) and their circuit symbols. The Zener diode symbol is a triangle pointing to a vertical line with a horizontal line across the triangle, labeled 'Anode' and 'Cathode'.		Used to regulate the input voltage to a fixed value to protect circuits, provide stable power supply and control load currents.
4	 The image shows a photodiode, its circuit symbol, and a Zener diode. The photodiode symbol is a triangle pointing to a vertical line with two arrows pointing towards the line, labeled 'Anode' and 'Cathode'. The Zener diode symbol is a triangle pointing to a vertical line with a horizontal line across the triangle, labeled 'Anode' and 'Cathode'.		Used as light sensor, IR transmitter and receiver to trigger circuit and provide selective control such as remote control, light switch, and used in proximity sensors.