

HO CHI MINH CITY UNIVERSITY OF TRANSPORT



English in Electrical Engineering and

Electronic Teacher: Vo Thuy Ngoc Dung. Member Group 1:

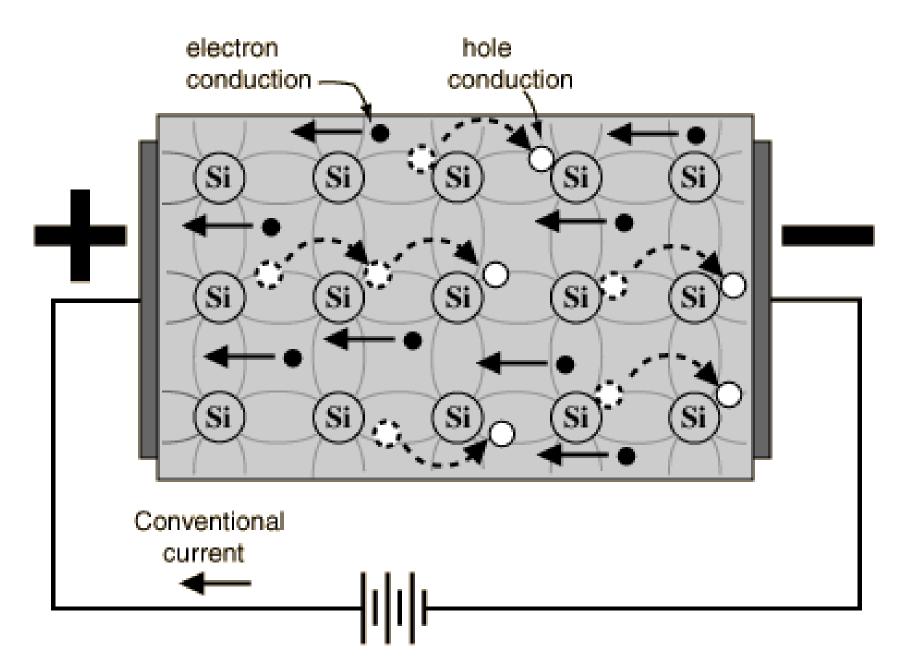
- 1. Tran Le Man. TD14
- 2. Thai Huu Dat. TD14
- 3. Truong The Khuyet. DC14
- 4. Pham Phu Hiep. TD14



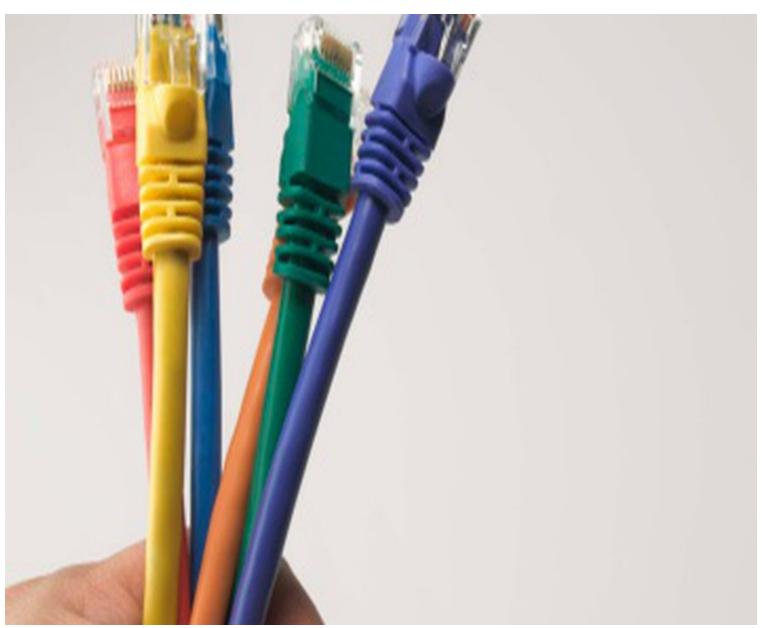




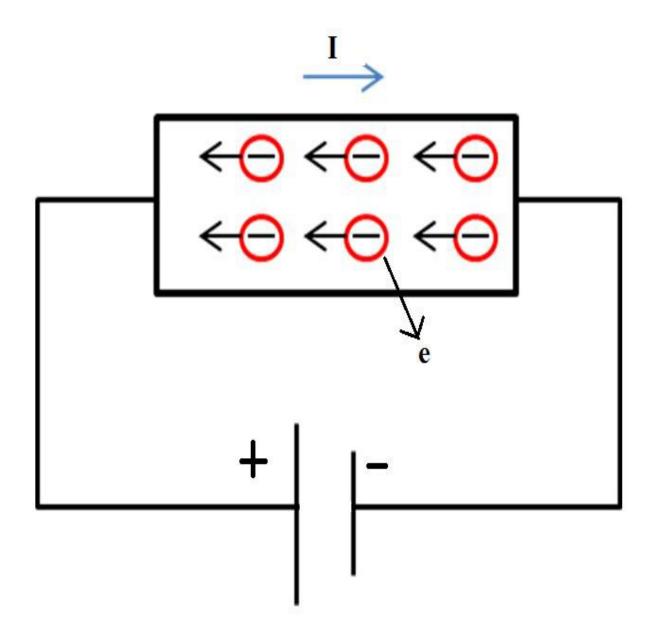






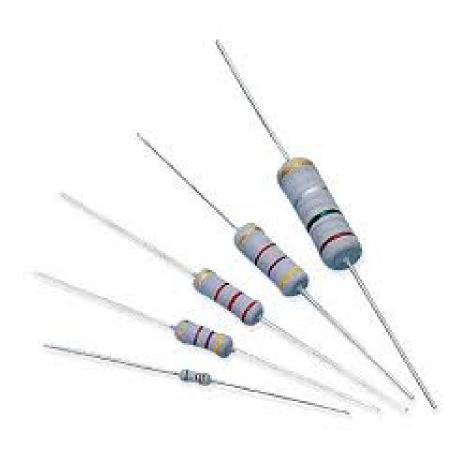








Copper: Đồng



Resistor: Điện trở

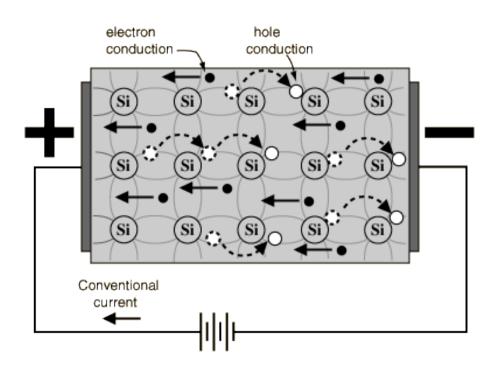
Resistance : Điện kháng



Robber: Cao su hoặc nhựa



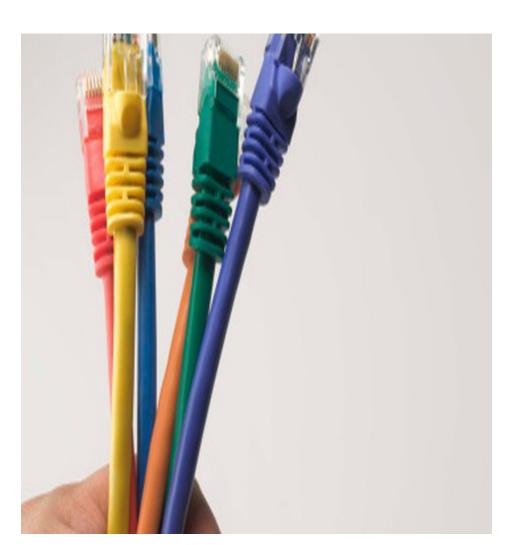
Mixture: hon hop



Semiconductors: chất bán dẫn



Non – metals: Phi kim

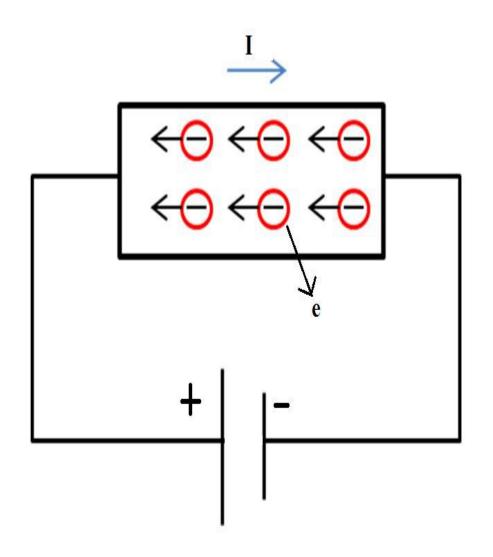


Insulators: chất cách điện



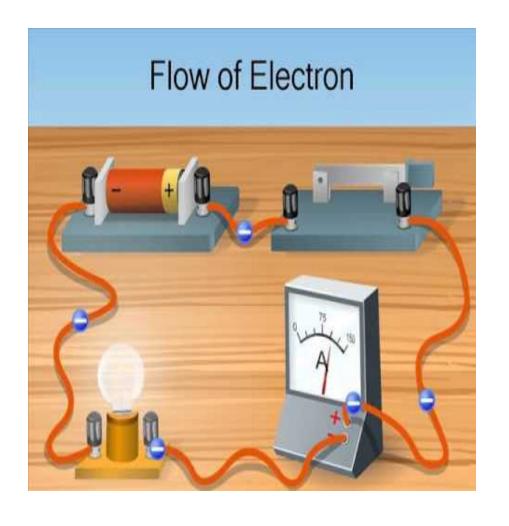
Metals: Kim loai

ANSWER



Electric current: dòng điện

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Ex: conduct : dan đien (ocntduc)
Materials = Supstance : vật liệu, chất
   liêu (triamles)
2. Conductors : chất dẫn điện (ocdutorsnc)
3. Negative end ...: cực âm (ganetvie edn)
4. Positive end ....: cực dương ( tiveopis end )
5. Temperature ....: nhiệt độ ( temrapetuer )
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Battery

Positive end

Negative end

Electric current

Lamp

Conductors wire



A ceramic capacitor: Tụ gốm



A resistor: diện trở



An electrolytic capacitor **Tụ điện phân**



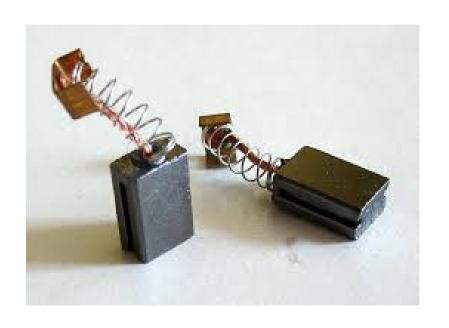
Transformer laminations Lá thép kĩ thuật



An antanna: cây anten



A magnet: nam châm



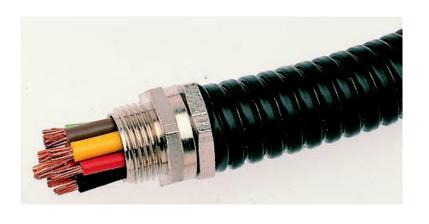
A carbon brush: chổi than



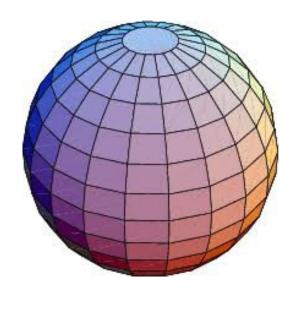
A capacitor: tu điện



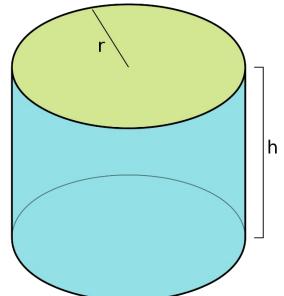
A motor pole shoe: cực động cơ điện



A cable conduit: cáp dẫn điện



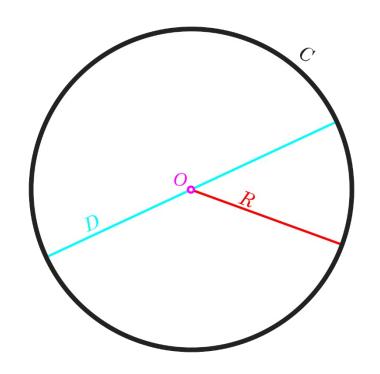
Sphere (n) / Spherical (adj) hình câu



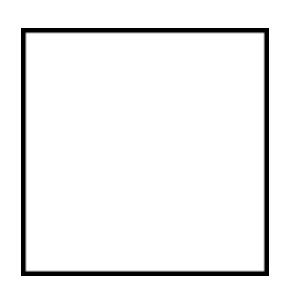
cylinder (n) / cylindrical (adj) hình tru



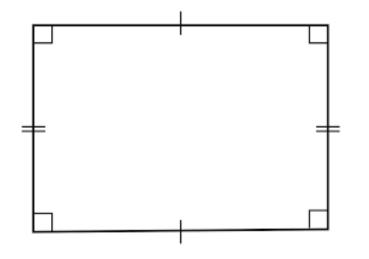
Tube (n) / tubular (adj)
hình dạng ống



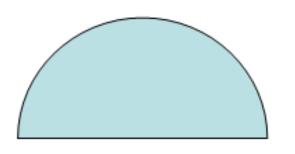
Circle (n) / circular (adj) hình tròn



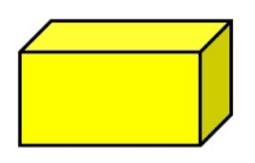
square (n) / square (adj) hình vuông



rectangle (n) / rectangular (adj) hình chữ nhật

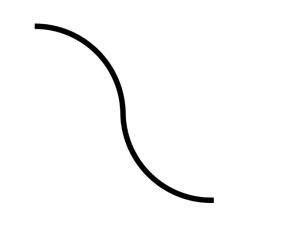


Semi-circle (n) / semi-circular (adj) Nữa hình tròn



rectangular (adj) hình hộpchữ nhật

Lines: đường



Curved: cong

straight: thẳng

Edges: canh

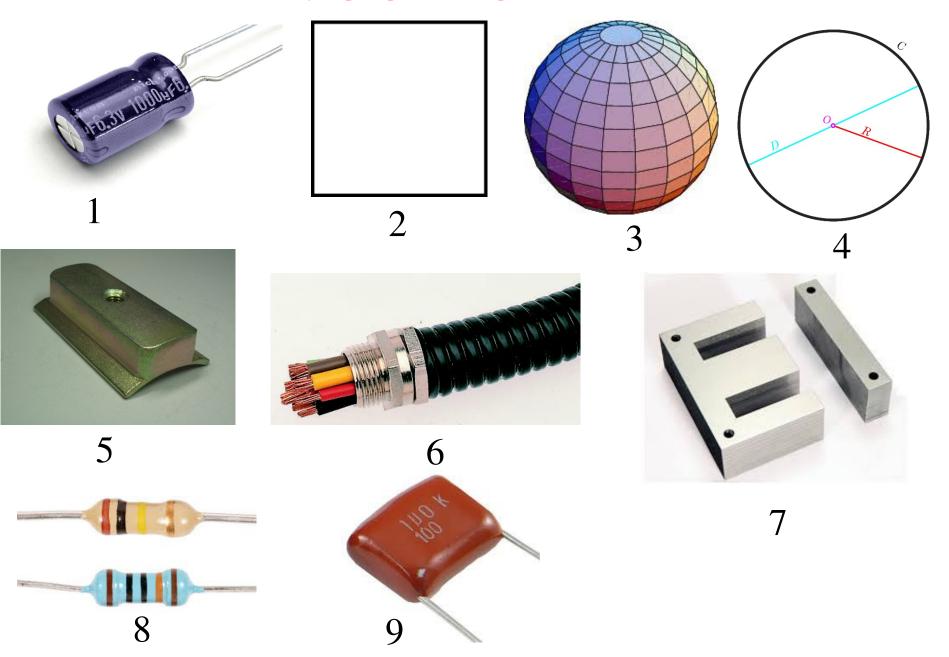


rounded: tròn



pointed: nhon

- 1. A circle is a simple closed shape in Euclidean geometry.
- 2. A sphere is a perfectly round geometrical object in three-dimensional space.
- 3. A square ... is a regular quadrilateral, which means that it has four equal sides and four equal angles.
- 4. .A.cylinder..is the surface formed by the points at a fixed distance from a given straight line called the axis of the cylinder.
- 5. A magnet is a material or object that produces a magnetic field
- 6. A carbon brush is a device which conducts current between stationary wires and moving parts, most commonly in a rotating shaft.



- 1. An electrolytic capacitor
- 2. square (n) / square (adj)
- 3. Sphere (n) / Spherical (adj)
- 4. Circle (n) / circular (adj)
- 5. A motor pole shoe
- 6. A cable conduit
- 7. Transformer laminations
- 8. A resistor
- 9. A ceramic capacitor

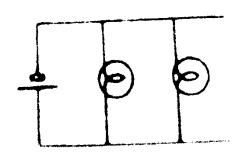
Now complete each sentence using an appropriate phrase from this list:

A. Vocabulary

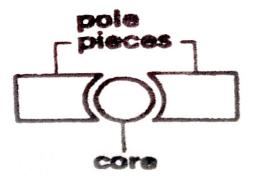
- 1. Wound round : quấn vòng
- 2. Connected across : kết nối qua...
- 3. Mounted on : gắn thêm...
- 4. Wired to : có dây để...
- 5. Located within : nam trong...
- 6. Applied to : áp dụng cho...
- 7. Connected to : kết nối với...
- 8. Connected between : kết nối giữa...

Now complete each sentence using an appropriate phrase from this list:

- 1. Wound round
- 2. Connected across -1
- 3. Mounted on
- 4. Wired to



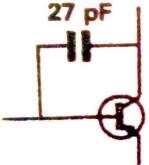
- 5. Located within
- 6. Applied to
- 7. Connected to
- 8. Connected between



1. The bulbs are ... the battery 2. the core is ... the pole pieces

Now complete each sentence using appropriate phrase from this list:

- 1. Wound round
- 2. Connected across -1
- 3. Mounted on
- 4. Wired to



- 5. Located within
- 6. Applied to
- 7. Connected to
- 8. Connected between -3



3. The 27pF capacitor is ... the 4. the antenna is ... the coil collector and the base

Now complete each sentence using appropriate phrase from this list:

- 1. Wound round
- 2. Connected across -1
- 3. Mounted on
- 4. Wired to



- 5. Located within -2
- 6. Applied to
- 7. Connected to
- 8. Connected between -3



5. feedback voltage is ... the base 6. the rotor is ... the shaft of the transistor through C1

Now complete each sentence using an appropriate phrase from this list:

- 1. Wound round
- -7

5. Located within -2

2. Connected across -1

6. Applied to

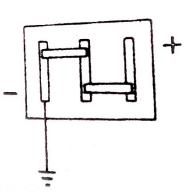
3. Mounted on -6

7. Connected to

4. Wired to -8

8. Connected between -3





7. the coil is ... an iron core

8. the negative pele of the battery ... earth

Translate English sentences into Vietnamese

- 1. The materials that are neither conductor nor insulator with energy gap of about 1 eV (electron volt) are called semiconductors.
- Vật chất không dẫn hoặc cách điện với năng lượng khoảng 1eV được gọi là chất bán dẫn.
- 2. A battery is a device that converts chemical energy to electrical energy.
- Pin là thiết bị chuyển hóa năng thành điện năng.
- 3. Diodes are the simplest semiconductor device having only two layers, two terminals and one junction.
- Diode là chất bán dẫn đơn giản nhất chỉ có 2 lớp, 2 cực và 1 lớp chuyển tiếp.

Transfer the following sentences from Vietnamese into English

- 1. Độ dẫn điện là tính chất cơ bản của vật liệu. Electrical conductivity is a basic property of material.
- 2. Điện trở của dây dẫn tăng khi chiều của dây dẫn tăng.

Resistance of the conductor increases with increasing length of the conductor.

(Mệnh đề quan hệ)

Relative Pronouns

Relative pronoun		Use	,		Example
who	subject	or		object	I told you about the
	pronoun for people			woman who lives	
					next door.
which	subject	or		object	Do you see the
	pronoun	for a	nim	als and	cat which is lying on
	things				the roof?
which	referring	to	a	whole	He couldn't
	sentence				read which surprised
					me.

(Mệnh đề quan hệ)

Relative Pronouns

Relative pronoun	Use	Example
whose		Do you know the boy whose mother is a nurse?
whom	object pronoun for people, especially in non-defining relative clauses (in defining relative clauses we colloquially prefer <i>who</i>)	professor whom I met at the conference.

(Mệnh đề quan hệ)

Relative Pronouns

Relative pronoun	Use	Example		
that	subject or object pronoun			
	for people, animals and	table <i>that</i> stands in		
	things in defining relative	the kitchen.		
	clauses (who or which are			
	also possible)			

(Mệnh đề quan hệ)

Relative Adverbs

Relative adverb	Meaning	Use	Example
when	in/on	refers to a time	the day when we
	which	expression	met him
where	in/at	refers to a place	The place where
	which		we met him
why	for which	refers to a reason	the reason why
			we met him

(Mệnh đề quan hệ)

EXERCISE J Relative clauses 1

Study these sentences:

- Starter motor brushes are made of carbon.
- 2. The carbon contains copper.

Both these sentences refer to carbon. We can link them by making sentence a relative clause.

1+2. Starter motor brushes are made of carbon WHICH CONTAINS COPPER.

The relative clause is in capitals, Note that **THE CARBON** in sentence 2 becomes **WHICH**.

(Mệnh đề quan hệ)

EXERCISE J Relative clauses 1

Study these other pairs of sentences and note how they are linked:

- 3. Consumers are supplied at higher voltages than domestic consumers.
- 4. These consumers use large quantities of energy.

3+4. Consumers WHO USE LARGE OUANTMES OR ENDRGY higher voltages than domestic consumers.

(Mệnh đề quan hệ)

EXERCISE J Relative clauses 1

Study these other pairs of sentences and note how they are linked:

- 5. 33kV lines are fed to intermediate substations.
- 6. In the intermediate substations the voltage is stepped down to II kV.

5+6. 33kv lines are fed to intermediate substations WHERE THE VOLTAGE STEPPED DOWN To 11kV.

(Mệnh đề quan hệ)

- 1. The coil is connected in series with a resistor. The resistor has a value of 240 ohms.
- → The coil is connected in series with a resistor WHICH has a value of 240 ohms.
- 2. The supply is fed to a distribution substation.
- The supply is reduced to 415V in the distribution substation.
- The supply WHICH is reduced to 415V in the distribution substation is fed to a distribution substation.

(Mệnh đề quan hệ)

- 1. The coil is connected in series with a resistor. The resistor has a value of 240 ohms.
- → The coil is connected in series with a resistor WHICH has a value of 240 ohms.
- 2. The supply is fed to a distribution substation.
- The supply is reduced to 415V in the distribution substation.
- The supply WHICH is reduced to 415V in the distribution substation is fed to a distribution substation.

(Mệnh đề quan hệ)

- 3. Workers require a high degree of illumination.

 The workers assemble very small precision instruments.
- → Workers...WHQ...assemble...very...small...precision instruments, require a high degree of illumination.
- 4. Manganin is a metal.

 This metal has a comparatively high resistance.
- Manganin is a metal WHICH has a comparatively high resistance.

(Mệnh đề quan hệ)

- 5. The signal passes to the detector.

 The signal is rectified by the detector.
- The signal WHICH is rectified by the detector passes to the detector.
- 6. A milliammeter is an instrument.

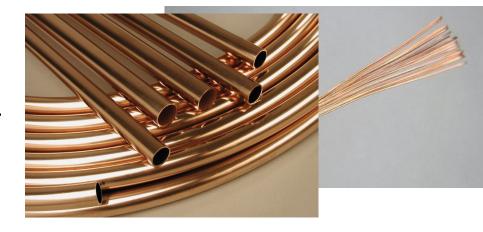
 The instrument is used for measuring small currents.
- A milliammeter is an instrument WHICH is used for measuring small currents.

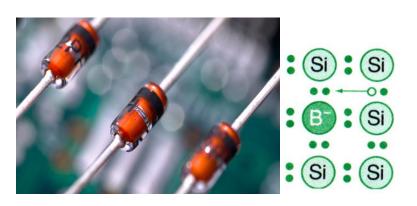
(Mệnh đề quan hệ)

- 7. Workers require illumination of 300 lux. The workers assemble heavy machinery.
- Workers WHICH assemble heavy machinery require illumination of 300 lux.
- 8. Annoured cables are used in places.

 There is a risk of mechanical damage in these places.
- Annoured cables are used in places WHERE there is a risk of mechanical damage.

1. A.conductor is an object or type of material that allows the flow of an electrical current in one or more directions.





2. A Semiconductor. is a material that in some cases will conduct electricity but not in others.

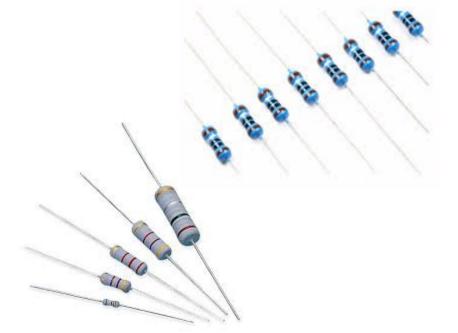
3. A metal is a material (an element, compound, or alloy) that is typically hard, opaque, shiny, and has good electrical and thermal conductivity.





4. Non-metal... is a chemical element that does not have the properties of a metal. Some are gases including: hydrogen, helium, oxygen, nitrogen, fluorine, neon, or radon and many others.

5. A resistor is a passive twoterminal electrical component that implements electrical resistance as a circuit element.



6. Resistance... is the opposition that a substance offers to the flow of electric current.



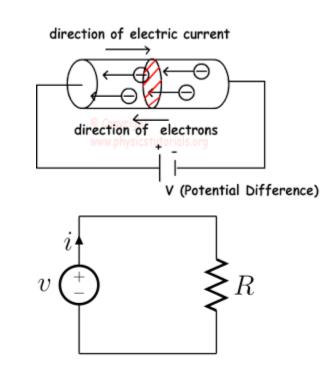


7. A. thermistor... is a type of resistor whose resistance is dependent on temperature, more so than in standard resistors.

8. An electrical insulator. is a material whose internal electric charges do not flow freely; very little electric current will flow through it under the influence of an electric field.



9. An electric current is a flow of electric charge. In electric circuits this charge is often carried by moving electrons in a wire. It can also be carried by ions in an electrolyte, or by both ions and electrons such as in an ionised gas.





10. Temperature-sensing device.

is a rugged, general-purpose temperature sensor that can be used in organic liquids, salt solutions, acids, and bases.

The end THANK YOU!!!