

important factors  
in "Career Selection  
Process"

1. The child's aptitude.
2. Courses for a desired career.
3. Peer Pressure.
4. Remuneration.
5. Demotivation has negative impact.



The role of parents  
as  
active agents

1. They want their children to opt for a career they know about.
2. They said they misguided their children.
3. Don't burden our children with unreal expectations

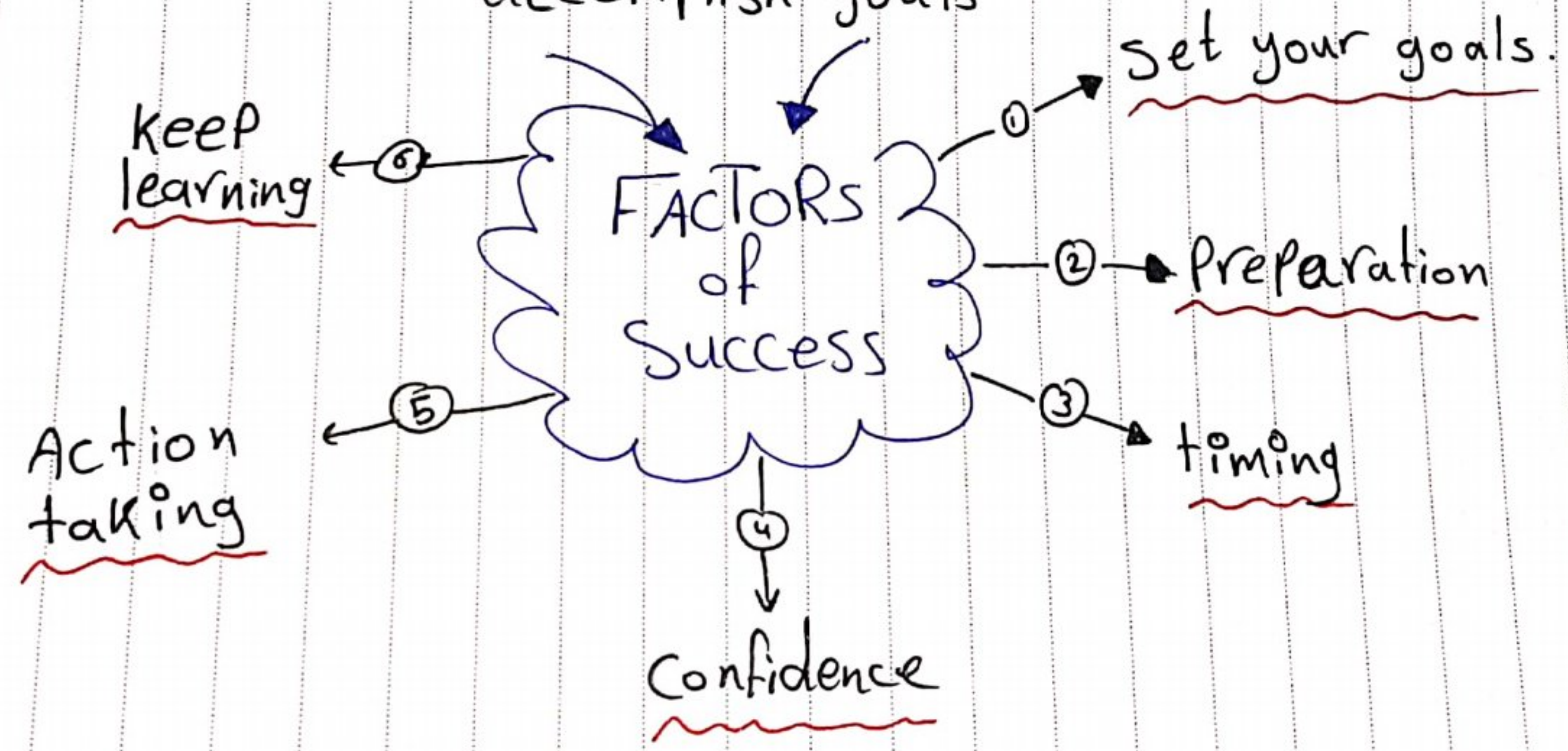
! Opt for = choose = select  
aspire = hope to  
reveal = uncover / show  
get swayed = influenced  
rejecting = refusing



Success

Definition

"accomplish goals"





# History of Medicine

15th → 18th  
Medicine

## 1. Groundbreaking developments:

- a. Vaccination.
- b. Human anatomy.
- c. Surgery.
- d. Micro biology.

Late 18th → 20th  
Medicine

## 1. More Improvements

Industrial Revolution  
a. Medical tools and machines

In 1800s 2. Germs caused diseases

"Nursing"

20th century up

## Biological Treatments

- Antibiotics.
- Chemistry.
- Genetics.
- Radiography.

9th → 13th  
Medicine

1. The Golden Age of the Arabic Medicine  
→ Muslim authors, other nations

2. Ways to cure sickness: 1- Plants 3- superstitions

To reduce Inflammation why?

- 2- herbs
- 4- Religion
- 5- bleeding
- 6- purging

3. Medicine: magical + Mythological

empirical

4. Reasons of diseases: Supernatural forces.

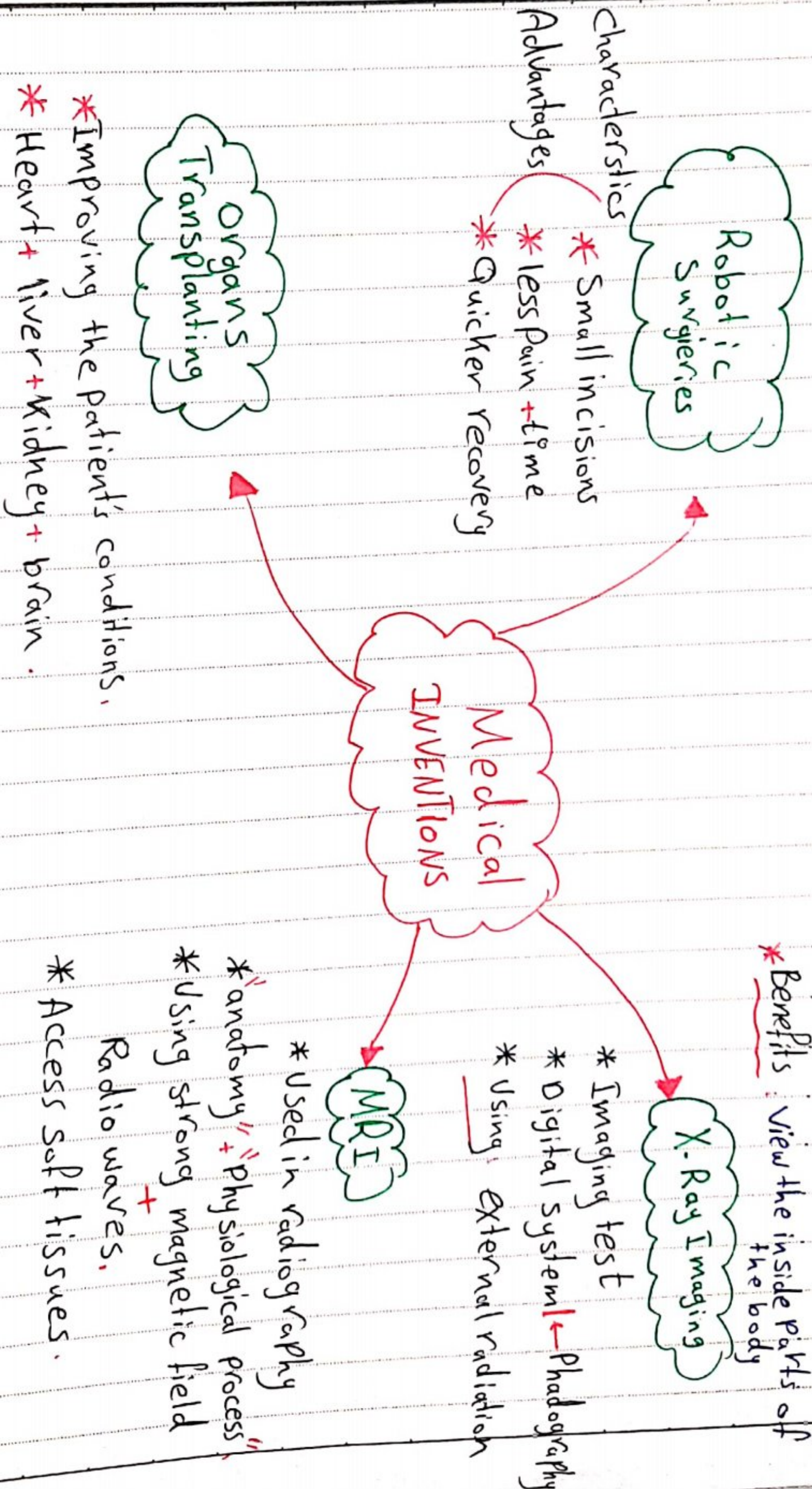
5. Treatment Place: In temples

"No hospitals"

6. Medical schools: Expensive & costly

- wise people
- prests
- Barbers
- People were treated (by)







Unit 4

\* HISTORY OF ENGINEERING

Inventions

Who / Where?

When?

Ancient Era

\* Simple classic machines ...

• wheel + axis

• Mesopotamia + Egypt  
• Imhotep "Pyramids"  
"Columns"

• In Persia "water powered"  
"water mills"

" 5<sup>th</sup> Mill"  
" 4<sup>th</sup> BCE"

Middle Ages

• Cotton gin + wind powered

• Indians: wind mills  
• Arabs: Cotton Industry

• 6<sup>th</sup> CE  
• 9<sup>th</sup> CE  
• 11<sup>th</sup> CE

European Rain

• Steam engines: the beginning of The Industrial Revolution.

• THOMAS SAVERY.

• 1698

Modern Era

• Modern mechanical engines.

• Specialized machines. \* Britain

• James Watt

• Chemical Engineering.



Medical Companies

- Fields of work
  - Medical Engineering
- Advanced medical research centres

• well-equipped hospitals + clinics

Benefits + Advantages

- Helps doctors define the tasks.
- Facilitates the work.
- Essential assistant.

## MEDICAL TECHNOLOGY ENGINEERING

Studying the body from an engineering point of view

Concerned with

Kinds of medical devices

two parts

- Diagnostic medical devices
  - "ultrasound devices"
- Medical therapeutic devices
  - "chemical treatment"

### Three categories:

- Simple devices
  - Bandages
  - Body temp meter
- Complex devices
  - Devices that emit X-Ray
- deep study devices
  - Valves of artificial heart and joints.



- Substantial : الهائل = massive = huge = wide
- Disciplines : Aspects = Fields
- Tasks : Missions
- Intervention : التدخل - الإسراع
- Notably : بشكل ملحوظ
- Ultra Sound : فوق الصوتية
- Caution : attention = care
- Emit : تطرح - give off
- Equipped : مجهز
- Advanced major research centres : مراكز الأبحاث المتطورة
- Favoured : المرموقة ، المفضلة
- Conduct : carry out execute do
- Extent : Level



# Civil Rights

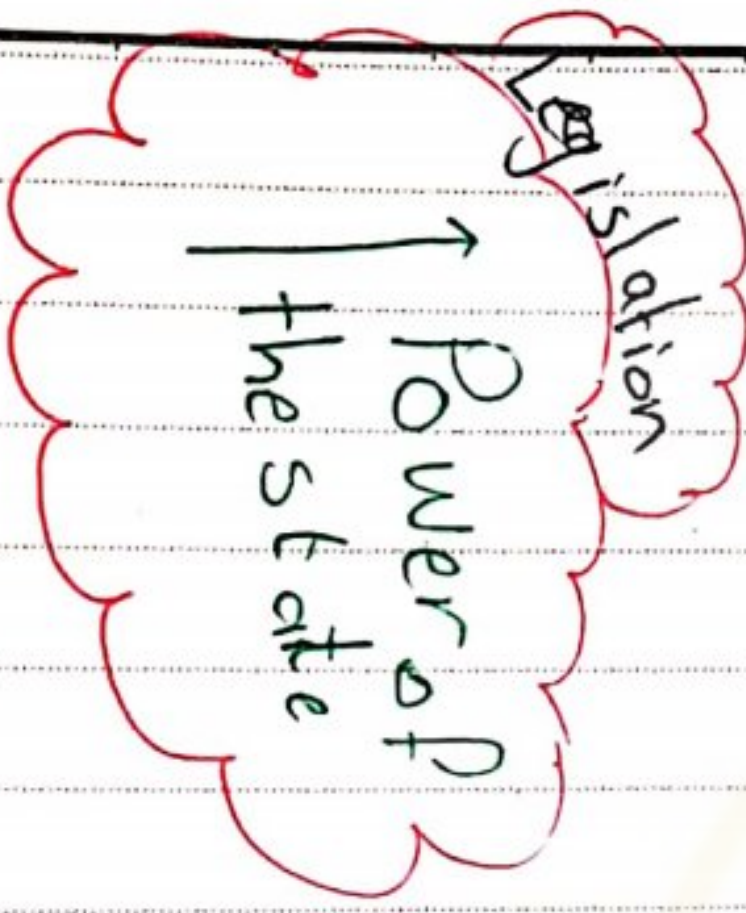
Unit (5):

## Civil Rights

Government Services  
Public Facilities  
Fair trial  
Note  
Education

### Civil Rights

- \* Obtained by being a legal member of a social/political life.
- \* Political social freedom equality.
- \* Protection from violation.



VS

Human Rights  
\* Acquired by being alive



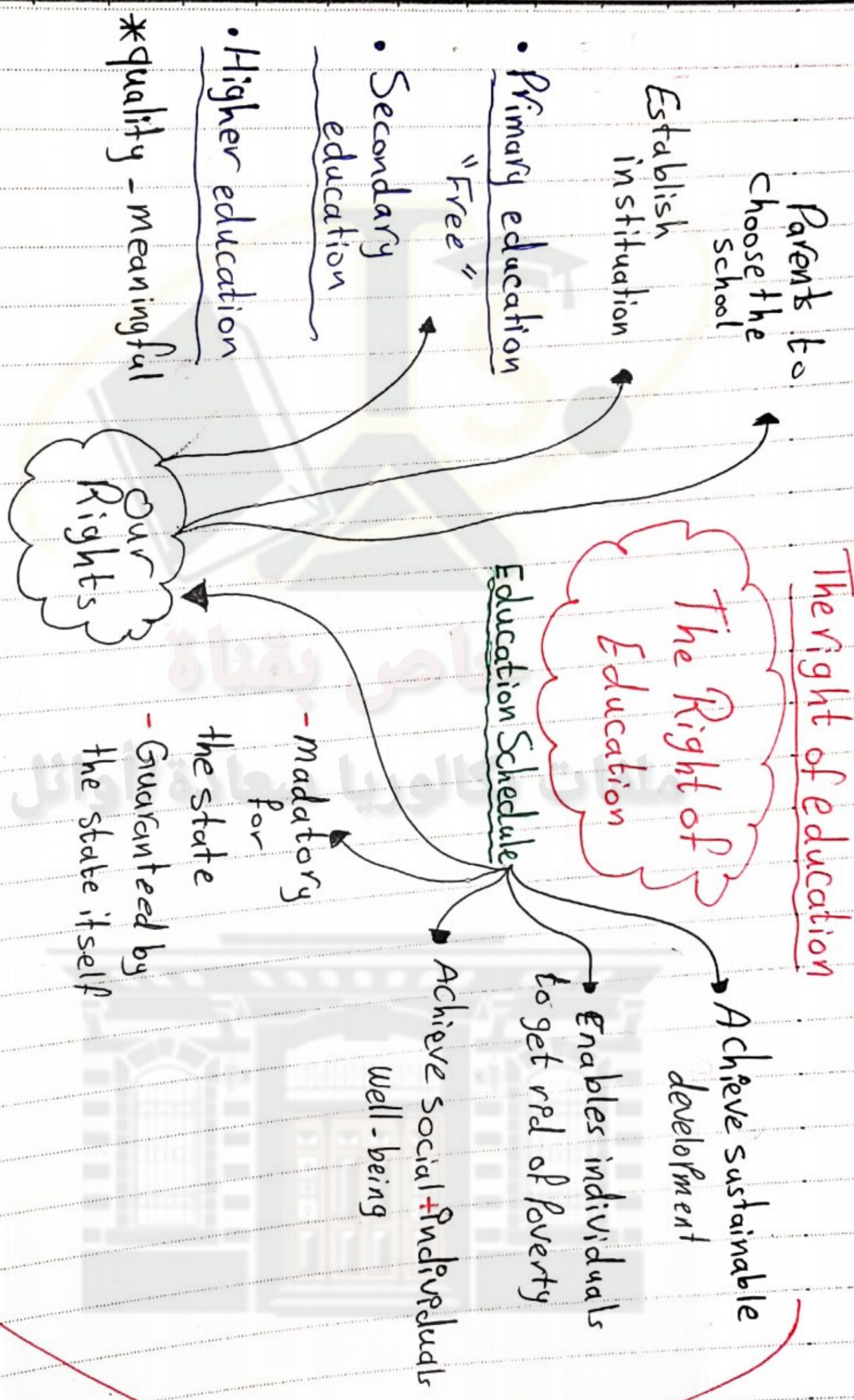
Imposed on Government

VS Political Right

Participate in the civil + Political life

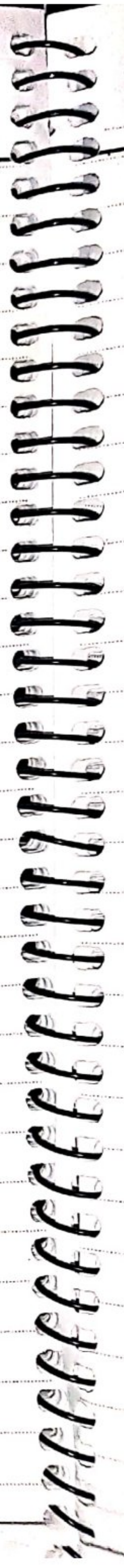


# THE RIGHT OF EDUCATION



Build society + worlds  
\* New cultures + worlds





- \* Offices
- \* Regional offices  
Geneva + Vienna + Nairobi
- \* Predecessor  
League of Nations
- \* Created by the treaty of Versailles
- \* "1919"
- \* Disbanded "1946"

- Arabic + Chinese + French
- English + Spanish + Russian
- Languages

- \* Established by:
  - Charter of the UN
  - Statute of ICJ
- \* Date of Signing
  - 26 June / 1945

- \* Number of countries
  - 50 countries
  - 51 "Poland"
- \* Appeared
  - On October 24 / 1942
  - "Birth day"

- \* Members
  - 5 Permanent mems:
  - \* China \* France
  - \* Russia \* USA
  - \* UK
- Ten non-Permanent mem

Turn the Page





\* Address = aims

- \* Peace
  - Develop relations
  - \* Peace
  - \* Help the Poor
- 1- Humanitarian crises.
  - 2- Civil War
  - 3- Unprecedented refugee flows
  - 4- AIDS
  - 5- Financial disruption.
  - 6- International terrorism.
  - 7- Disparities of wealth.



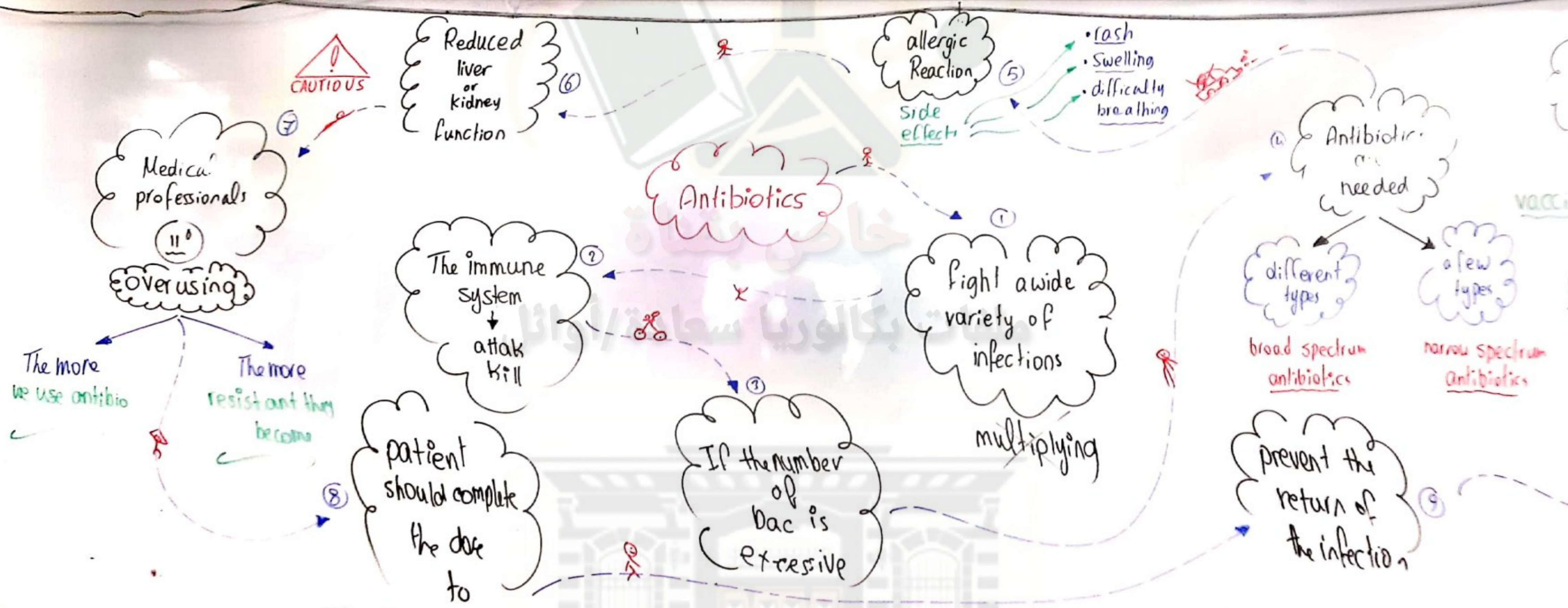
Principles of the UN

- \* Sovereign equality among members.
- \* All obey the charter.
- \* All settle the differences by Peace means.
- \* All avoid using force.
- \* No interfere in the domestic affairs
- \* All try to help the UN.

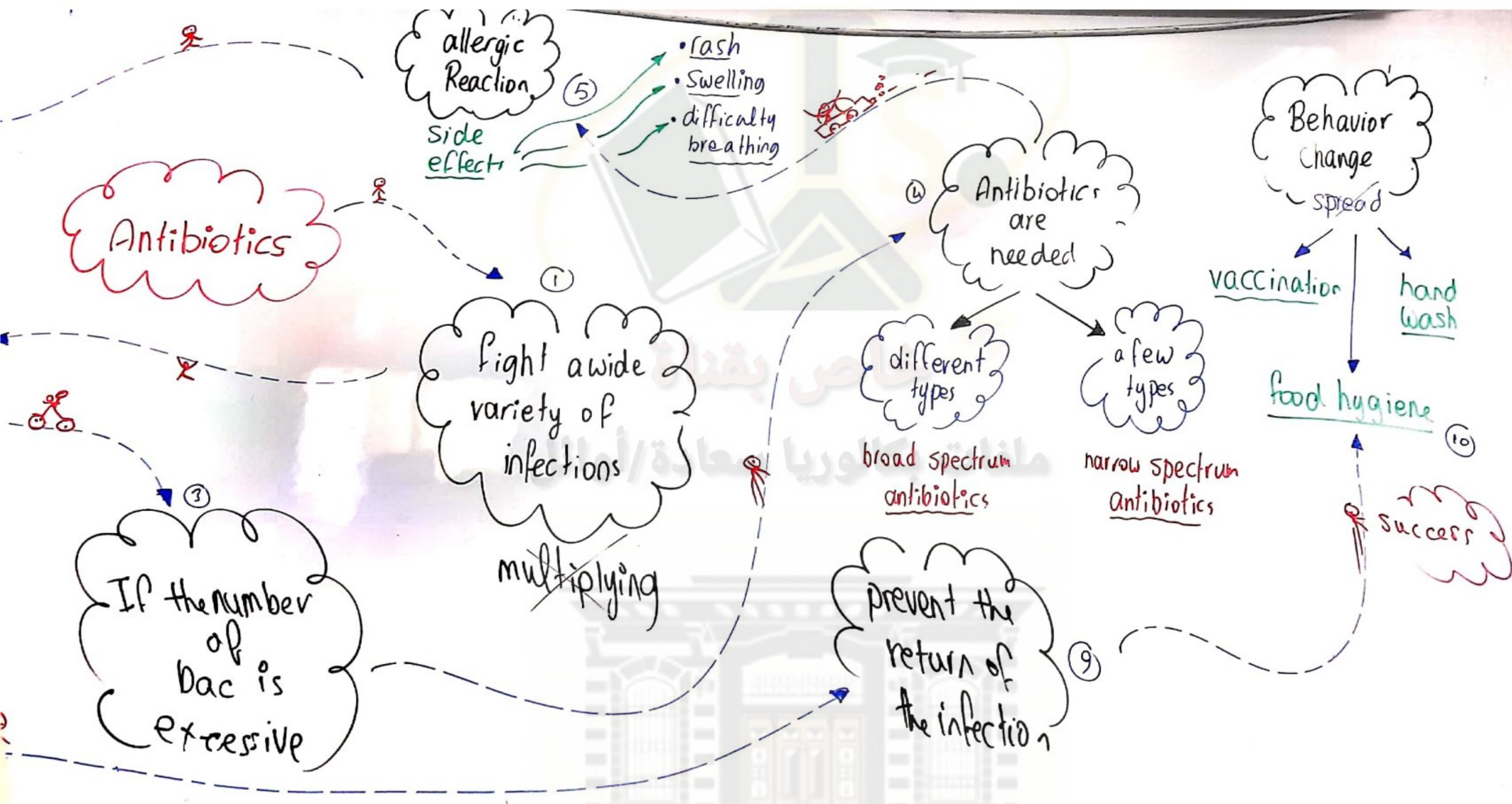














## Viruses

- Not organisms
- Smaller
- Not a cell
- \* Needs a host "humans/animals"

- They reproduce inside the host cell and by hijacking the biochemical activities.

### \* Causing infection:

influenza  
common cold  
Flu  
AIDS  
corona

- EXAMPLE
- \* viral infection
  - \* attack the host and multiply and invade other cells.

## Bacteria

- Living organisms
- Single cell.

- Tiny
- Same symptoms
- Same spread

↓  
difficult to differ  
- swap from the body

- \* lives on its own "live in many places"
- Most aren't harmful
- Benefits:

- \* in the guts to help digest food.
- \* in nature to decompose the organic matter.

- \* Changing nitrogen to chemicals for plants.

- \* Causing infection
- \* bacterial infection
- \* varied operation

### EXAMPLE

pneumonia  
streptococ  
ear infection  
food poisoning



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Syrian citizenship

Rights

- \* The Syrian Gov protects individuals.
- \* All have Freedom, protection and legal rights.

- \* Voluntary + Obligatory
- \* Pass along the good
- \* citizenship to future generations

- \* obey laws
- \* Pay Penalties when law is broken
- \* pay taxes
- \* Unilaterally abandon the nationality.

# CITIZENSHIP

defined

- Rights + duties given
- Character of an individual in a society

appeared

- \* In ancient Greece
- \* Disappeared in Europe in M.A
- \* appeared in 18<sup>th</sup>

Elements = aspects

disciplines = branches

- 1-Family
- 2- military services
- 3-Freedom
- 4- Rights + wrong
- 5-Paying taxes
- 6- Behavior



arose  
appeared  
emerged  
came into existence



