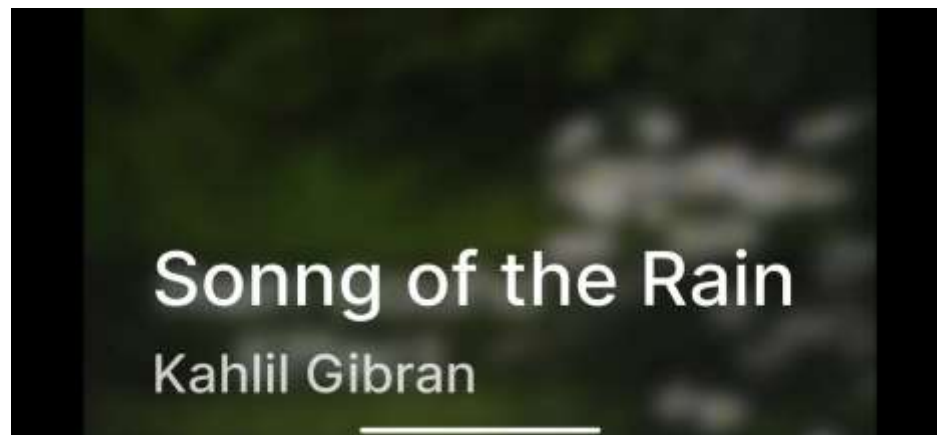


E-CONTENT



<https://youtu.be/DGH-sCYnL0Q?si=vztlgKMAWqUKkQLV>



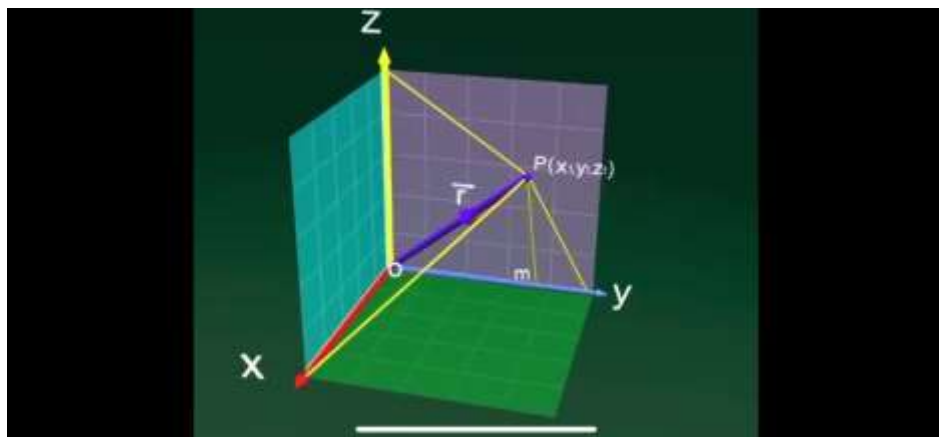
<https://youtu.be/dcpILpPKFBc?si=WSalt7NBlg01D7qE>




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<https://youtu.be/KHNqYAjVk64?si=cVHmE6SWddNrbAcA>



https://youtu.be/_OFG594CS6M?si=Hi4AbxBRYkp29pAt




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<https://youtu.be/OFYmcyFmZQ?si=RMynZCQV-6etNWQ>



https://youtu.be/mOexqN064_U?si=ma2tXStz4fVps879




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<https://youtu.be/x6-tj5JvZlo?si=KLvnIJs5bfbVWJr6>



https://youtu.be/qTQ_7qGk7no?si=tx1rCDN-u4mkySBh




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Song of the Flower - Khalil Gibran



I am a kind word uttered and repeated

By the voice of Nature;

I am a star fallen from the

Blue tent upon the green carpet.

I am the daughter of the elements

With whom Winter conceived;

To whom Spring gave birth; I was

Reared in the lap of Summer and I

Slept in the bed of Autumn.

At dawn I unite with the breeze

To announce the coming of light;

At eventide I join the birds

In bidding the light farewell.

The plains are decorated with

My beautiful colors, and the air

Is scented with my fragrance.

As I embrace Slumber the eyes of

Night watch over me, and as I

Awaken I stare at the sun, which is

The only eye of the day.



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I drink dew for wine, and hearken to
The voices of the birds, and dance
To the rhythmic swaying of the grass.

I am the lover's gift; I am the wedding wreath;
I am the memory of a moment of happiness;
I am the last gift of the living to the dead;
I am a part of joy and a part of sorrow.

But I look up high to see only the light,
And never look down to see my shadow.
This is wisdom which man must learn.

Link : <https://youtu.be/PSwNgv1Sj50?si=EBn31hAjuYcl-lel>




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അടിസ്ഥാന പാഠാവലി

ക്ലാസ്സ് 8

നാടകം

തേൻകുനി

രചന, സംവിധാനം : Dr.വയല വാസുദേവൻ

Link :

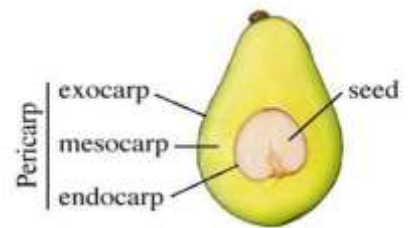
<https://youtu.be/dZucdd-AoLE?si=TmQpiN5S4lmhRLrz>




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HISTOLOGICAL STRUCTURE OF THE PERICARP

- No distinct tissue differentiation in the pericarp prior to the ripening of the fruit
- During the development the number of cells increases & the parenchymatous ground tissue may remain as it is or part of it may become sclerenchymatous
- Pericarp :
 - ☐ Outer Exocarp
 - ☐ Middle Mesocarp
 - ☐ Inner Endocarp



Link : https://youtu.be/JKfAFWb9HJk?si=r_uqrC63zyaqyN0q

- In large fruits vascular bundles, which develop in the ground tissue, are added to the vascular system of the gynoecium so that the supply of water & other substances to all parts of the fruit is made possible
- There is a relationship between the nature of fruit , histological structure of the pericarp & seed dispersal.




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True fruit :

- Mature or ripened ovary, developed after fertilization
- All tissues of a fruit are derived from a ripe ovary & it's contents

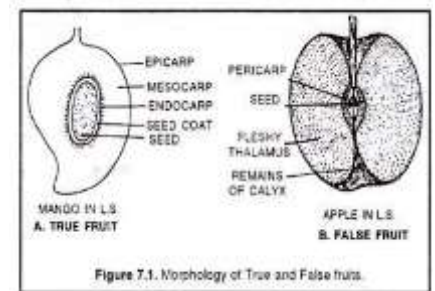
Eg: *Mango, Maize, Grape etc.*

False Fruits (Pseudocarp) :

- Fruit derived from the floral parts other than ovary

Eg: Peduncle in *Cashewnut* , Thalamus in

Apple & Pear, Fused perianth in *Mulberry*



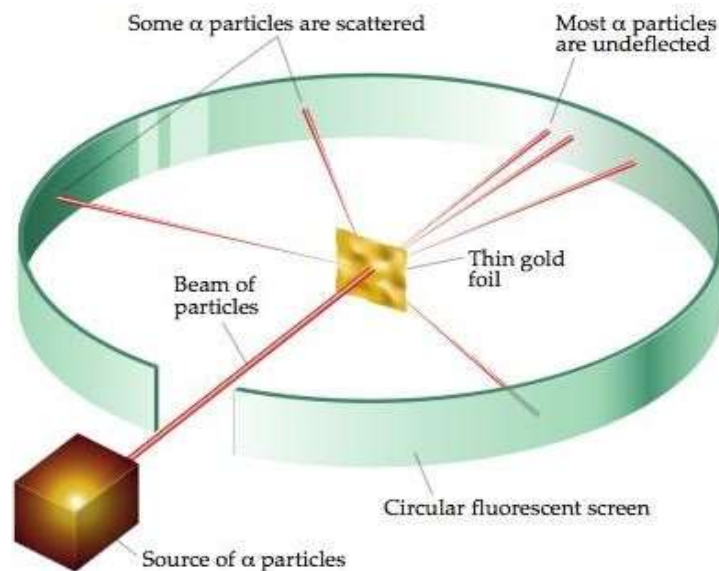
Link : <https://youtu.be/Gawir0icizI?si=8amfRiXt2iKWFs54>




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Rutherford's α -scattering experiment (1911)

Observations of Rutherford's scattering experiment



1. Most of the fast moving α -particles passed straight through the gold foil.

2. Some of the α -particles were deflected by the foil by small angles.
3. Surprisingly one out of every 20,000 alpha particles appeared to rebound.

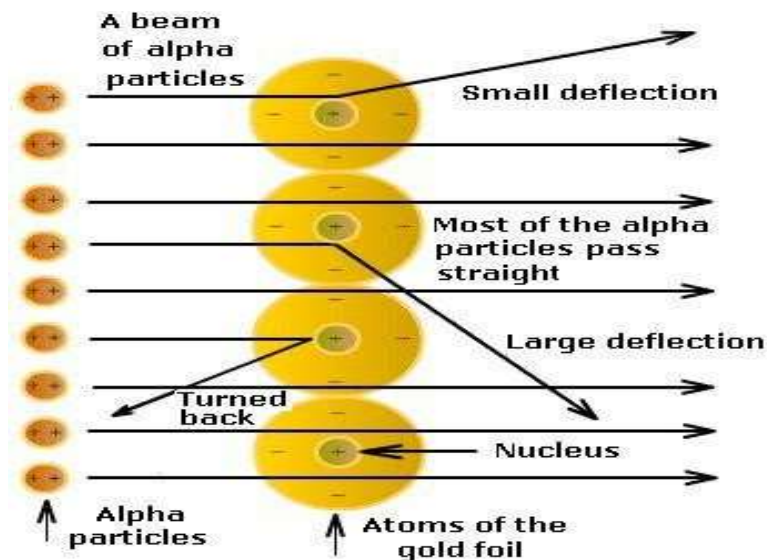
Conclusions of Rutherford's scattering experiment:

- Most of the space inside the atom is empty because most of the α -particles passed through the gold foil without getting deflected.




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- Very few particles were deflected from their path, indicating that the **positive charge of the atom occupies very little space**.
- A very small fraction of α -particles were deflected by very large angles, indicating that all the **positive charge and mass** of the gold atom were concentrated in a very small volume within the atom called **nucleus**.
- From the data he also calculated that the **radius of the nucleus (10^{-15})** is about 10^5 times less than the **radius of the atom (10^{-10} m)**



Link : https://youtu.be/fLFXDdnJN5U?si=B-XJlj5F_CqUSCWe




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