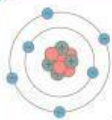
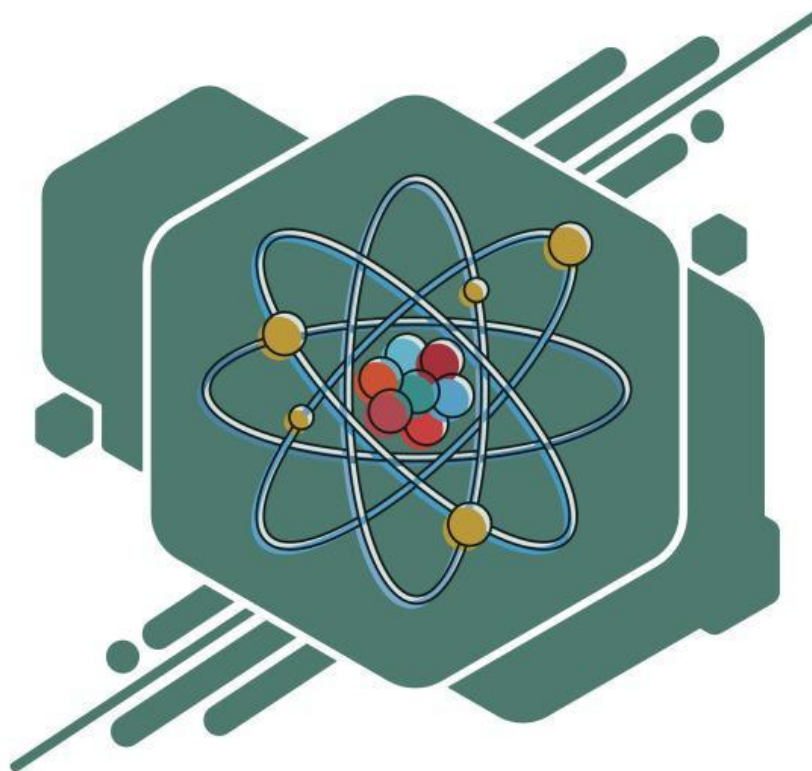




Sekolah Menengah Atas  
Kelas 10

# LKPD

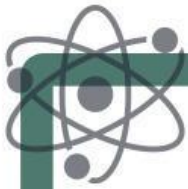
## STRUKTUR ATOM



NAMA ANGGOTA KELOMPOK:

- 1.
- 2.
- 3.
- 4.
- 5.





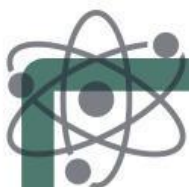
## PANDUAN PENGGUNAAN E-LKPD

1. Setiap anggota kelompok wajib membaca E-LKPD yang diberikan.
2. Pahami tujuan pembelajaran yang akan dicapai.
3. Fokus saat pembelajaran dengan mengaitkan langkah E-LKPD dengan arahan dari guru.
4. Diskusikan setiap permasalahan dalam E-LKPD dengan seksama.
5. Mintalah bantuan guru jika ada yang kurang dimengerti.

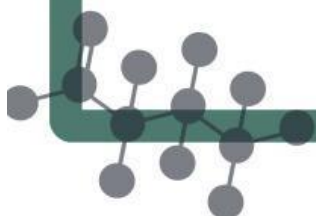
## TUJUAN PEMBELAJARAN

1. Peserta didik dapat mendeskripsikan perkembangan model atom.
2. Peserta didik dapat mengidentifikasi partikel-partikel subatomik penyusun atom
3. Peserta didik mampu menuliskan notasi atom suatu unsur secara lengkap yang menunjukkan jumlah proton, neutron, dan elektron dengan benar





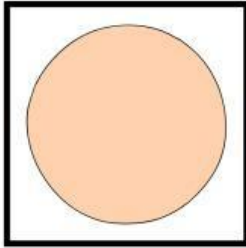
# VIDEO LITERASI



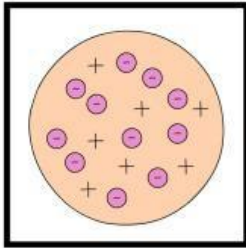


## Kegiatan 1

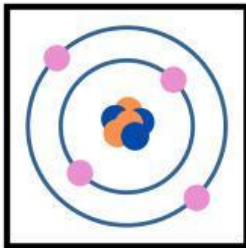
Sambungkanlah atom dengan penemunya!



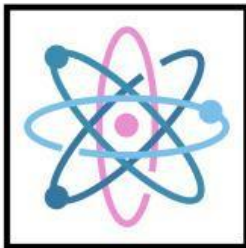
Rutherford



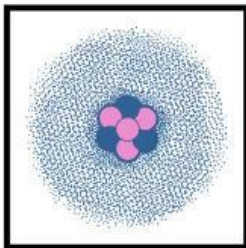
J.J Thomson



Schrödinger



Niels Bohr



John Dalton



## Kegiatan 2

Jelaskan postulat dan kelemahan atom tersebut!



John Dalton

Postulat :

Kelemahan :



J.J Thomson

Postulat :

Kelemahan :



Rutherford

Postulat :

Kelemahan :



Niels Bohr

Postulat :

Kelemahan :



Schrödinger

Postulat :

Kelemahan :



## Kegiatan 3

Lengkapi tabel karakteristik partikel penyusun atom di bawah ini!

| Nama Partikel | Lambang | Muatan | Lokas dalam Atom |
|---------------|---------|--------|------------------|
| Proton        |         |        |                  |
| Neutron       |         |        |                  |
| Elektron      |         |        |                  |

Lengkapi tabel berikut dengan benar!

| No. Atom | No. Massa | Proton | Elektron | Neutron | Lambang Unsur |
|----------|-----------|--------|----------|---------|---------------|
|          |           | 9      | 10       | 10      |               |
|          |           | 30     | 30       | 35      |               |
|          |           | 26     | 23       | 30      |               |
|          |           | 15     | 18       | 16      |               |
|          |           | 7      | 7        | 7       |               |

|                             |                         |                       |                             |                              |                           |
|-----------------------------|-------------------------|-----------------------|-----------------------------|------------------------------|---------------------------|
| ${}_{11}^{23}\text{Na}^{+}$ | ${}_{30}^{65}\text{Zn}$ | ${}_{7}^{14}\text{N}$ | ${}_{15}^{31}\text{P}^{3-}$ | ${}_{26}^{56}\text{Fe}^{3+}$ | ${}_{9}^{19}\text{F}^{-}$ |
|-----------------------------|-------------------------|-----------------------|-----------------------------|------------------------------|---------------------------|

# REFLEKSI

Temukan kata kunci yang berkaitan dengan materi struktur atom di dalam kotak huruf di bawah ini! Kata-kata dapat tersusun secara mendatar, menurun, atau diagonal.

Kata yang harus dicari:

- ATOM
- PROTON
- ELEKTRON
- NEUTRON
- DALTON
- THOMSON
- RUTHERFORD
- NIELS BOHR

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | X | C | E | L | E | K | T | R | O | N | S | E | L | A | T | A | N | G | A | H |
| U | A | L | G | I | P | A | P | U | A | S | E | L | A | T | A | N | Y | A | X | J |
| T | A | L | I | M | A | N | T | A | N | S | E | L | A | T | A | N | A | S | S | A |
| H | C | B | I | B | A | N | G | K | A | B | E | L | I | T | U | N | G | U | A | W |
| E | C | B | P | R | O | T | O | N | A | G | P | R | P | V | A | J | L | M | B | A |
| R | C | J | A | W | A | T | I | M | U | R | T | F | U | U | G | A | Q | A | E | B |
| F | Q | X | A | D | B | N | C | E | R | Y | U | J | U | D | W | M | W | T | N | A |
| O | A | G | O | R | O | N | T | A | L | O | V | B | B | E | N | B | A | E | G | R |
| R | H | I | L | A | B | C | X | A | X | F | V | I | N | D | A | I | A | R | K | A |
| D | P | H | I | B | C | D | A | G | N | H | J | I | E | A | K | M | O | A | U | T |
| L | A | M | P | U | N | G | O | D | C | T | B | I | U | L | G | H | J | U | L | A |
| T | H | O | M | S | O | N | A | C | H | A | I | V | T | T | I | O | Q | T | U | B |
| J | U | A | Y | T | H | T | D | V | R | B | I | M | R | O | A | T | K | A | E | A |
| J | A | W | A | T | O | N | G | A | H | W | A | G | O | N | W | B | X | R | A | L |
| A | S | D | Z | M | C | M | T | N | C | V | B | T | N | R | T | Q | K | A | H | I |
| M | A | L | U | K | U | U | T | N | I | E | L | S | B | O | H | R | R | I | A | U |