

**10** : 

[REDACTED] : [REDACTED] [REDACTED]

■ ■ ■ ■ : 20 ■ ■ ■ ■ 2025 ■ ■ ■ ■

[REDACTED]

[REDACTED] 10-[REDACTED] [REDACTED]  
[REDACTED] [REDACTED]. [REDACTED] [REDACTED]  
[REDACTED], [REDACTED] [REDACTED] [REDACTED]  
[REDACTED], [REDACTED] [REDACTED],  
[REDACTED] [REDACTED] [REDACTED].  
[REDACTED] [REDACTED] [REDACTED], [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED].  
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
[REDACTED].

[REDACTED]: [REDACTED] [REDACTED], 10 [REDACTED], [REDACTED]  
[REDACTED], [REDACTED].



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- 1.
  - 2.
  - 3.
    - 3.1.
    - 3.2.
    - 3.3.
    - 3.4.
  - 4.
  - 5.
  - 6.

1. [REDACTED]

2. 

3. [REDACTED]

## 3.2. ■■■■■ ■■■■■ ■■■■■ ■■■■■



4. [REDACTED]

5. [REDACTED]

## 6. [REDACTED] [REDACTED]

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- 1. [REDACTED], ■. ■. (2018). [REDACTED]. 10 [REDACTED]. [REDACTED] ([REDACTED]). [REDACTED]: [REDACTED].
- 2. [REDACTED], ■. ■. (2018). [REDACTED] ([REDACTED] [REDACTED]). 10 [REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED]: [REDACTED].
- 3. [REDACTED], ■. ■. (2018). [REDACTED]. 10 [REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] ([REDACTED] [REDACTED]). [REDACTED]: [REDACTED].
- 4. [REDACTED], ■. ■., [REDACTED], ■. ■., & [REDACTED], ■. ■. (1998). [REDACTED]. [REDACTED] [REDACTED]. 10 - 11 [REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED]: [REDACTED].
- 5. [REDACTED], ■. ■., [REDACTED], ■. ■., & [REDACTED], ■. ■. (2018). [REDACTED] ([REDACTED] [REDACTED]). 10 [REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED]: [REDACTED].
- 6. [REDACTED] [REDACTED] ■ [REDACTED] [REDACTED]. (2017). [REDACTED] [REDACTED] ■ [REDACTED] ([REDACTED] [REDACTED]) [REDACTED] 10-11 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED] ■ 1407 [REDACTED] 23 [REDACTED] 2017 [REDACTED].
- 7. [REDACTED], ■. ■., & [REDACTED], ■. ■. (2018). [REDACTED] ([REDACTED] [REDACTED]). 10 [REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED]: [REDACTED].
- 8. [REDACTED], ■. ■. (2018). [REDACTED] ([REDACTED] [REDACTED]). 10 [REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED]: [REDACTED].
- 9. [REDACTED], ■. ■. (2018). [REDACTED] ([REDACTED] [REDACTED]). 10 [REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED]. [REDACTED]: [REDACTED].

- 10. "████████-██████". 10 . (n.d.).

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<https://lms.e-school.net.ua/courses/course-v1:UIED+Chemistry-10th-grade+2020/about>

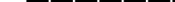
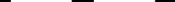
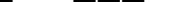
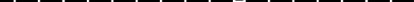
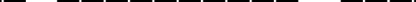
- 11.     10–11 

Figure 10. The effect of the number of hidden neurons on the performance of the proposed model.

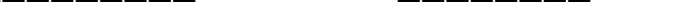
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**Figure 1.** The three panels show the evolution of the density profile of the system. The left panel shows the initial state, the middle panel shows the state at  $t = 10$ , and the right panel shows the final state at  $t = 20$ . The horizontal axis represents the spatial coordinate  $x$ , and the vertical axis represents the density  $\rho$ .

<https://mon.gov.ua/storage/app/media/zaqalna%20serednya/programy-10-11-klas/khimiya>

- 12.  -  " 10

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19).  .

<https://vseosvita.ua/library/kalendarno-tematicne-planuvannya-himia-10-klas-naukova-kompaniya>

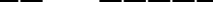
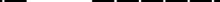
10.    (n.d.)

Figure 10. The effect of the number of hidden neurons on the performance of the proposed model.

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- 14. \_\_\_\_\_ ( ) 18-11

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23). Chemteacher.

- 13. \_\_\_\_\_, \_\_\_\_\_, & \_\_\_\_\_, \_\_\_\_\_. (1997). \_\_\_\_\_, \_\_\_\_\_,

**Figure 1.** The four panels show the results of the simulation of the evolution of the system of two coupled oscillators with initial conditions  $\theta_1(0) = \pi/2$ ,  $\dot{\theta}_1(0) = 0$ ,  $\theta_2(0) = 0$ , and  $\dot{\theta}_2(0) = 0$ . The parameters are  $\omega_1 = 1$ ,  $\omega_2 = 1.01$ ,  $\gamma_1 = 0.01$ ,  $\gamma_2 = 0.01$ , and  $\alpha = 0.01$ .