

Chemistry Course — Final Assessment Notice

We will be holding the final assessment for the **Chemistry in Action** course.

Date & Time

Saturday, March 28, 2026
10:30 AM

Location

Creative Foundation Center
1615 St. Mary's Rd

Duration

90 minutes

Assessment Format

- The assessment will be completed on a **computer**.
 - Each student will receive a **Word document** containing the exam questions.
 - Students will type their answers directly in the document.
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Resources Allowed

This is an **open-resource assessment**. Students may use:

- The internet
- AI tools
- Class notes
- Books

However, students are expected to:

- **Think independently**
- **Explain their reasoning clearly**
- **Demonstrate their own understanding**

If you cannot explain it in your own words, it means you do not fully understand it.

Submission

- Students must complete their answers in the provided Word document.
 - Once finished, they should **submit the document as instructed during the session**.
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Purpose

This assessment is designed to evaluate students' ability to:

- Think scientifically
 - Explain ideas clearly
 - Apply what they have learned to new situations
 - Solve problems step by step
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Sample Questions & Answers

To help students understand the format, here are two examples:

Sample Question 1

Design an experiment that creates a visible change that lasts longer (for example: longer glow or longer reaction effect).

Explain your idea and how you would improve it.

Sample Answer

I want to design an experiment that creates a longer-lasting glow using zinc sulfide.

From the course, I learned that zinc sulfide absorbs light energy and stores it. When electrons gain energy, they move to a higher energy level. When they return, they release energy as visible light.

To make the glow last longer, I would expose the material to stronger light or for a longer time to store more energy.

To improve the design, I could compare different light sources and observe which produces a longer glow.

★ Sample Question 2

If your experiment does not work as expected, what should you do? Explain one possible reason and how you would improve it.

✅ Sample Answer

As a scientist, I should observe carefully and try to understand what went wrong instead of assuming failure.

One possible reason is that the zinc sulfide did not absorb enough light energy before the experiment.

To test this, I would increase the charging time and make sure the powder is evenly spread under the light.

If this improves the result, I can continue adjusting the light intensity or exposure time to optimize the experiment.

★ Final Note

This assessment is not about memorizing answers.

It is about:

- **Thinking clearly**
- **Explaining your ideas**
- **Solving problems step by step**