Gymea Technology High School
INSPIRE. LEARN. SUCCEED.

Year 12, HSC Chemistry

TRIAL EXAMINATION NOTIFICATION

Due Date: Monday 19th August

Date Distributed: 25/07/2024 **Task Weighting: 30%**

Outcomes - Students:

CH12-1	develops and evaluates questions and hypotheses for scientific investigation
CH12-2	designs and evaluates investigations in order to obtain primary and secondary data and information
CH12-3	conducts investigations to collect valid and reliable primary and secondary data and information
CH12-4	selects and processes appropriate qualitative and quantitative data and information using a range of appropriate media
CH12-5	analyses and evaluates primary and secondary data and information
CH11-6	solves scientific problems using primary and secondary data, critical thinking skills and scientific processes
CH12-7	communicates scientific understanding using suitable language and terminology for a specific audience or purpose
CH12-12	explains the characteristics of equilibrium systems, and the factors that affect these systems
CH12-13	describes, explains and quantitatively analyses acids and bases using contemporary models
CH12-14	analyses the structure of, and predicts reactions involving, carbon compounds
CH12-15	describes and evaluates chemical systems used to design and analyse chemical processes

ASSESSMENT OUTLINE

1. WHAT AREAS OF LEARNING DOES THIS ASSESSMENT ADDRESS?

Student's knowledge, skills and scientific understanding of how models, theories and laws have been developed and applied in Chemistry will be assessed, specifically in Module 5 **(Equilibrium and Acid Reactions),** Module 6 **(Acid/Base Reactions),** Module 7 **(Organic chemistry) and Module 8 (Applying Chemical Ideas)**.. This will occur within a 3 hour examination.

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2. WHY IS THE COMPLETION OF THIS ASSESSMENT IMPORTANT?

This task will draw together the above outcomes providing students with the opportunity to demonstrate their knowledge, understanding and skills in Chemistry. This will allow them to gain feedback on areas of strength and limitations in order for their knowledge to be refined for the HSC course.

3. WHAT STEPS DO I TAKE TO COMPLETE THIS TASK?

Task Outline

Using syllabus outcomes and content as a guide, you will be assessed specifically on Module 5 **(Equilibrium and Acid Reactions),** Module 6 **(Acid/Base Reactions),** Module 7 **(Organic Chemistry), Module 8 (Applying Chemical Ideas)**. Students will need to formulate logical and coherent responses to a range of questions to achieve full marks.

The examination is 3 hours in duration plus 5 minutes reading time. It will consist of:

- **Section 1**: 20 multiple choice

  Students should allow 35 **minutes** to complete this section.

- **Sections 2**: 80 marks of short responses (marks indicated per question).

  Students should allow **2 hours 25 minutes** to complete this section.

All working out must be shown to be awarded full marks.

As this is an examination, you will need to prepare for this task by:

• Make summary notes of each topic listed above.

• Regularly complete practice examination questions.

• Seek teacher assistance on unclear work.

• Ensure all set work is up to date.

Details for Submission

Students will need to bring pens, pencils, a ruler and a board-approved calculator to this examination. All answers are to be completed on the exam paper.

Student name needs to be written on the front of the examination paper.

The examination paper and answer sheet will be provided. Students are NOT permitted to bring notes into the exam.

Any student who is absent on the day of the examination must follow the illness/misadventure procedures in the school's assessment policy. Non-completion of the task without successful illness/misadventure appeal will receive a zero-mark and an N-Warning notification, as outlined in the Year 12 Assessment Booklet.

Students are to complete the task on the first day they return to school.

4. HOW WILL MARKS BE AWARDED TO MEASURE MY LEARNING?

Marks will be indicated on the paper for each question. The examination consists of both multiple choice and extended response questions. Students will need to show all working to achieve maximum marks.

Worked solutions including feedback will be provided with the marked paper.