國立中科實驗高級中學雙語部
IBSC International Bilingual School At Central Taiwan Science Park

Year 2024-25 Second Semester Midterm Exam Scope Grade 9 to Grade 12

	Grade 9	Grade 10	Grade 11	Grade 12
Language Arts	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment Students will be actively engaging in a 5-7 day essay writing workshop which will incorporate the strategies of prewriting, drafting, peer review, editing, revising and creating a final polished essay typed in MLA format. The explanatory essay will be a culmination of the texts from Unit 5:Journeys of Transformation, which will address the essential question: *When does the journey matter more than the destination*?	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment Students will be actively engaging in a 5-7 day essay writing workshop which will incorporate the strategies of prewriting, drafting, peer review, editing, revising and creating a final polished essay typed in MLA format. The explanatory essay will be a culmination of the texts from Unit 4: All That Glitters, which will address the essential question: *What makes something valuable*?	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment Students will be actively engaging in a 5-7 day essay writing workshop which will incorporate the strategies of prewriting, drafting, peer review, editing, revising and creating a final polished essay typed in MLA format. The explanatory essay will be a culmination of the texts from Unit 4: Grit and Grandeur; The Importance of Place, which will address the essential question: *What makes certain places live in our memories*?	☑ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☐ Alternative Assessment **Reading - myPerspectives** 1. **Macbeth** → Vocabulary → Multiple Choice Questions → Comprehension Check (Written Response) **Important:** You will also be given a reading text that you haven't read before. You will need to answer questions from this text.
Chinese	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment **Theme:聊齋誌異故事改編-廣播劇製作** **story rewriting base on 耳中人/張老相公/種梨, student will seperate in to 3 group for script writing and recording.** **This assessment will need to be finished before April 15th.**	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment **Theme:地景,人文,自我** Presentation: 5-10min, need to include 地景人文介紹 Poster: 圖像創意 and 新詩或散文創作一篇 **This assessment will need to be finished before April 15th.**	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment **L1~L3課文問答題以及一篇課外閱讀討論題** 中文打字測驗**(Chinese typing)** **This assessment will finished on April 15th.(During Chinese class, student will need to bring their own laptop.)**	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment **GroupA:** 小論文**1, 2**章完成 **GroupB: Grade 2 L7-9** **Maha: Grade 2 L7-8**
Math	☑ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☐ Alternative Assessment **Geometry: Topic 7-9**	☑ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☐ Alternative Assessment **Chapter 6-5, 6-6** **Chapter 7-1, 7-2, 7-3, 7-4, 7-5, 7-6** **Chapter 8-1, 8-2, 8-3**	☑ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☐ Alternative Assessment **Pre-calculus: Ch3-5**	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment **Handout:1~4** **Folding Equilateral Triangles in a Square** **Origami Trigonometry** **Dividing a Length into Equal Nths** **Secrets about Printing Paper** **Origami Helix**

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Social Studies	☑ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☐ Alternative Assessment **Content:** **Alexander the Great** **Roman Republic** **Punic Wars** **Life In Rome** **Republic to Empire** **Roan Emperors** **Fall of Rome** **Format:** **Multiple Choice/True False, Short Answer**	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment **Life of Napoleon Timeline**	☑ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☐ Alternative Assessment **Content:** **Cold War Origins** **Yalta** **Geneva Conventions** **Iron Curtain** **Space Race** **Arms Race** **China in the Cold War** **Cold War Conflicts** **Format:** **Fill in the Blank, True/False, Short Answer**	☐ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☑ Alternative Assessment **Reflection: Social Class, Hierarchy and Prestige as presented in the Movie: Slumdog Millionaire**
Science	☑ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☐ Alternative Assessment • **Momentum and Impulse** • **Conservation of Momentum** • **Collisions** • **Properties of Waves-Wavelength, frequency, period, and amplitude** • **Introduction to EM waves** • **EM Wave spectrum** • **Reflection of light** • **Images formed by mirrors** • **Refraction of light** • **Images formed by lenses**	☐ Paper Exam-50 minutes ☑ Paper Exam-110 minutes ☐ Alternative Assessment • **Angular kinematics** • **Angular dynamics** • **Torques** • **Angular kinetic energy** • **Angular momentum** • **Conservation of angular momentum**	☑ Paper Exam-50 minutes ☐ Paper Exam-110 minutes ☐ Alternative Assessment **Topic: Introduction to Laboratory Practical** **Lab safety procedures** **Lab equipment use and name.** **Lab practical** **1.Qualitative Analysis of Unknown Substance** **2.Mixtures and their separation (Paper Chromatography)** **3.The effect of Polarity on solubility of substances** **Topic 14: Acids and Bases** **14.1 Properties of Acids and Bases** **14.2 Acid-base Theories** **14.3 Acid- Base Reactions** **Topic 15:** **Acid- Base Titration and pH** **15.1 Aqueous Solutions and the Concept of ph** **15.2 Determining ph and Titration** **Chapter 17: Reaction Kinetics** **17.1 The Reaction** **Activation Energies, collision Orientation, Possible Collison Concentration vs Possible Collision** **Chapter 17: Reaction Kinetics** **17.2 Reaction Rate** **Catalyst, Activation Energies, Particle Collision, Possible Collision Orientation for the Reaction of H2 and I2. Concentration vs Possible Collision.**	

Year 2024-25 Second Semester Midterm Exam Scope Elective Courses

<table>
<tr>
<td>AP Calculus AB</td>
<td>☐ Paper Exam-50 minutes
☑ Paper Exam-110 minutes
☐ Alternative Assessment

Modeling Situations with Differential Equations
Verifying solutions for DE
Slople fields
Finding particular/general solution using separation of variables
Finding average value of a function
Position velocity and acceleration
using accumulation functions
Area between curves
Volume with cross section/disc method/ Washer method</td>
<td>Musical Theatre</td>
<td>☐ Paper Exam-50 minutes
☐ Paper Exam-110 minutes
☑ Alternative Assessment
Perform full dress rehearsal of competition piece on 4/16 class. (No exam time needed)</td>
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<tr>
<td>AP
Computer Science A</td>
<td>☑ Paper Exam-50 minutes
☐ Paper Exam-110 minutes
☐ Alternative Assessment

Ch6.1~Ch8.2,
20 multiple choice questions
2 blank filling questions</td>
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<tr>
<td>AP Chemistry</td>
<td>☐ Paper Exam-50 minutes
☑ Paper Exam-110 minutes
☐ Alternative Assessment

Mixtures and their separation
1.Paper chromatography
2.Distillation
3.solubilty

4.8.A Identify species as Brønsted/Lowry acids, bases, and/or conjugate acid-base pairs,based proton-transfer involving those species.

TOPIC 5: CHEMICAL KINETICS
5.1 Reaction Rates
5.2 Introduction to Rate Law
5.3 Concentration Changes Over Time
5.4 Elementary Reactions
5.5 Collision Model
5.6 Reaction Energy Profile
5.7 Introduction to Reaction Mechanisms
5.8 Reaction Mechanism and Rate Law
5.9 Steady-State Approximation
5.10 Multistep Reaction Energy Profile
5.11 Catalysis

TOPIC: Thermodynamics
6.1 Endothermic and Exothermic Processes
6.2 Energy Diagrams
6.3 Heat Transfer and Thermal Equilibrium
6.4 Heat Capacity and Calorimetry
6.5 Energy of Phase Changes
6.6 Introduction to Enthalpy of Reaction</td>
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	6.7 Bond Enthalpies **6.8 Enthalpy of Formation** **6.9 Hess's Law** **TOPIC: Equilibrium** **7.1 Introduction to Equilibrium** **7.2 Direction of Reversible Reactions** **7.3 Reaction Quotient and Equilibrium Constant** **7.4 Calculating the Equilibrium Constant** **7.5 Magnitude of the Equilibrium Constant** **7.6 Properties of the Equilibrium Constant** **7.7 Calculating Equilibrium Concentrations** **7.8 Representations of Equilibrium** **7.9 Introduction to Le Châtelier's Principle** **7.10 Reaction Quotient and Le Châtelier's Principle** **7.11 Introduction to solubility equilibria** **7.12 Common-Ion Effect** **7.13 Ph and Solubility** **7.14 Free energy of Dissolution**	

Year 2024-25 Second Semester Midterm Exam Scope-Senior Elective Courses

AP Macroeconomics	☐ **Paper Exam-50 minutes** ☐ **Paper Exam-110 minutes** ☑ **Alternative Assessment** **Students complete a question book, which consists of 25 multiple-choice questions and 2 free-response questions.**	**AP 2-D Arts and Design**	☑ **Paper Exam-50 minutes** ☐ **Paper Exam-110 minutes** ☑ **Alternative Assessment** **Students *not* doing the AP Exam (digital portfolio): 50 minutes Paper Exam— Multiple Choice Questions, Short Answer Essay Questions, and Drawing Assessment—Principles of Design, Elements of Art, What is Art?, Self Assessment** **Students doing the AP Exam (digital portfolio): 50 minutes Alternative Assessment (laptop or tablet needed)—Complete digital portfolio on Collegeboard account/website—upload all photos, complete all writing, and have everything ready to send to Collegeboard before May 9th hard-deadline.**
AP Human Geography	☑ **Paper Exam-50 minutes** ☐ **Paper Exam-110 minutes** ☐ **Alternative Assessment** **Unit 6: Urban Geography** **Urban Origins** **Effects of Industrialization on the Urban Landscape** **Christaller's Theory** **7 City Models** **Infrastructure** **Urban Sustainability** **Qualitative and Quantitative Urban Data** **Urban Challenges**	**Public Speaking**	☐ **Paper Exam-50 minutes** ☐ **Paper Exam-110 minutes** ☑ **Alternative Assessment** **Based on a topic of the students' choice, a student will teach a lesson that requires participants to follow and complete any tasks the student assigns. He/She should then offer feedback to the students, from which the teacher will assess the competency of how the student prepared and ran the lesson.**