



Final Contents: Semester 1, 2020
Ongkharak Demonstration School
Mathayom 6/4

Monday 2nd and Wednesday 4th and Thursday 6th November, 2020

<p>1. กลุ่มสาระการเรียนรู้ภาษาไทย</p> <p>★ ภาษาไทยพื้นฐาน</p> <p>หลักภาษาและการใช้ภาษา</p> <ul style="list-style-type: none">- ความสัมพันธ์ระหว่างภาษา กับความคิด- ระดับภาษา- ราชาศัพท์ <p>วรรณคดีและวรรณกรรม</p> <ul style="list-style-type: none">- เสภาเรื่องขุนช้าง-ขุนแผน ตอนขุนช้างถวายฎีกา	<p>3. กลุ่มสาระการเรียนรู้วิทยาศาสตร์และเทคโนโลยี</p> <p>★ Science Exam Topics</p> <p>*Copy-paste the link in your computer browser to open and you can use it to study for your final exam.</p> <p>Topic Link will also be send to LINE group.</p> <p>Topic 1. Structure of plasma membrane</p> <p>LINK:</p> <p>https://drive.google.com/file/d/1EH2wKtRASHR3A4FVAC0b8zL042Nqb9QB/view?usp=sharing</p> <p>Topic 2. Cell transport</p> <p>LINK:</p> <p>https://drive.google.com/file/d/1D6NBpRMU2WdwX8-l6XGrRH_NhfWFGiZy/view?usp=sharing</p> <p>Topic 3. Human Equilibria</p> <p>LINK:</p> <p>https://drive.google.com/file/d/1jAvTy7cXbdVOy9tNOSFjkUajeEaUtCGu/view?usp=sharing</p> <p>Topic 4. Water and substance equilibria</p> <p>LINK:</p> <p>https://drive.google.com/file/d/1Aui4EzDgeFWbv_sH6j1OXHfblVkbzyJw/view?usp=sharing</p> <p>Topic 5. Body defense and deficient immune system</p> <p>LINK:</p> <p>https://drive.google.com/file/d/1Hm-k73xNat5RvHBHqPfUyx72tafBfYWy/view?usp=sharing</p> <p>https://prezi.com/j0hcdv_tvbtg/immune-system-disorder/</p>
<p>2. กลุ่มสาระการเรียนรู้คณิตศาสตร์</p> <p>★ Mathematics Exam Topics</p> <p>Content</p> <p>Unit 1 : Definition of Statistical Science and Data</p> <ul style="list-style-type: none">● Basic of data observation● Statistical science● Terminology of statistic science● Type of data● Descriptive statistics and inferential statistics <p>Unit 2 : Qualitative analysis and presentation</p> <ul style="list-style-type: none">● Qualitative analysis● Qualitative analysis with frequency distribution table● Qualitative analysis with diagrams and charts● Qualitative analysis with diagram and charts <p>Unit 3 : Quantitative Analysis and Presentation 1</p> <ul style="list-style-type: none">● Quantitative analysis● Quantitative analysis with frequency distribution table● Quantitative analysis with diagram● Quantitative analysis with diagram● Data Mean	

2. กลุ่มสาระการเรียนรู้คณิตศาสตร์ (ต่อ)

★ Mathematics Exam Topics

Unit 4 : Quantitative Analysis and Presentation 2

- Measure of dispersion
- Measures of dispersion
- Measure of position
- Measure of position

Unit 5 : Probability Distributions of Random Variables

- Definition and types of random variable
- Distribution of discrete random viable (discrete uniform distribution and binomial distribution)

Description

The examination will contain the following question types:

- Short answer questions in which students must show working
- Short answer questions in which students must write explanations
- Matching Questions: Vocabulary Based

The questions will cover a range of difficulty from easy to difficult.

★ Additional Mathematics Exam Topics

Type of Test :

Unit 2 Basic Calculus

- Limit and continuous function
- Definition of limit
- Limit of function
- Theories related to limit of function
- Finding limit with application of graph
- Infinite limit
- Limit at infinity
- Continuous function

Type of Test :

Part I. Multiple Choice

Part II. Solving Problems

Students are allowed to use calculator in the final exam.

3. กลุ่มสาระการเรียนรู้วิทยาศาสตร์และเทคโนโลยี (ต่อ)

★ Physics Exam Topics

Content

Unit 1: Magnetic Fields and Forces

- Magnetic Field and Field Lines
- Magnetic Flux and Flux Linkage
- Magnetic Field of a Wire
- The Magnetic Field of a Coil
- Magnetic force on a charged particle moving through a magnetic field
- Magnetic force on a long, straight, current carrying wire in a magnetic field
- Magnetic Force between two current-carrying wires

Unit 2: Electromagnetic Induction

- A wire moving through a magnetic field
- Faraday's Law
- Lenz's Law
- AC Generators
- Power in AC Circuits
- DC Electric Motors

Unit 3: Heat, Temperature, and Ideal Gases

- Temperature
- Specific Heat and Specific Heat Capacity
- Latent Heat and Changes of State
- Charles' Law
- Boyle's Law
- Guy-Lussac Law
- Ideal Gas Law
- Kinetic Theory of Gases
- Average Kinetic Energy of a Gas and its relation to Temperature
- Meaning of RMS Speed

Unit 4: Laws and Applications of Thermal Physics

- Internal Energy
- Work done by or on a gas
- The First Law of Thermodynamics
- The Second Law of Thermodynamics

<p>3. กลุ่มสาระการเรียนรู้วิทยาศาสตร์และเทคโนโลยี (ต่อ)</p> <p>Unit 4: Laws and Applications of Thermal Physics</p> <ul style="list-style-type: none"> - PV Diagrams and Thermodynamic Processes: Adiabatic, Isothermal, Isobaric, Isochoric - Cyclical Thermodynamic Processes - The Carnot Cycle <p>Unit 5: Properties of Solids and Liquids</p> <ul style="list-style-type: none"> - Solids versus Fluids - Elasticity in Solids - Stress and Strain - Young's Modulus - Surface Tension in Liquids - Viscosity of a Liquid <p>Unit 6: Fluid Dynamics</p> <ul style="list-style-type: none"> - Static Fluids - Pressure in Fluids - Devices for Measuring Pressure in Fluids - Buoyancy - Fluid Dynamics - Ideal Fluids - Continuity Equation - Bernoulli's Equation - Applications of Fluid Dynamics <p>Description</p> <p>The examination will contain the following question types:</p> <ul style="list-style-type: none"> ● Short answer questions in which students must show working ● Drawing and interpreting graphs and diagrams ● Matching Questions: Vocabulary Based <p>The questions will cover a range of difficulty from easy to difficult.</p>	<p>3. กลุ่มสาระการเรียนรู้วิทยาศาสตร์และเทคโนโลยี (ต่อ)</p> <p>★ เคมี</p> <p>หน่วยที่ 13 พอลิเมอร์</p> <ul style="list-style-type: none"> - พอลิเมอร์และมอนอเมอร์ - ปฏิกิริยาการเกิดพอลิเมอร์ - โครงสร้างและสมบัติของพอลิเมอร์ - การปรับปรุงสมบัติของพอลิเมอร์ - การแก้ปัญหามาจากพอลิเมอร์ <p>★ Biology Exam Topics</p> <p>*Copy-paste the link in your computer browser to open and you can use it to study for your Final exam.</p> <p>Topic Link will also be send to LINE group.</p> <p>Topic 1. Endocrine System</p> <p>LINK:</p> <p>https://drive.google.com/file/d/1dno47empokh7B4Qzqf6iR2QGHsYhratB/view?usp=sharing</p> <p>Topic 2.Body Equilibrium</p> <p>LINK:</p> <p>https://drive.google.com/file/d/1jAvTy7cXbdVOy9tNOSFjKUajeEaUtCGu/view?usp=sharing</p> <p>Topic 3. Pheromone</p> <p>LINK:</p> <p>https://prezi.com/g_xboe4lr1by/pheromones/</p> <p>Topic 4. Reproductive system</p> <p>LINK:</p> <p>https://prezi.com/mjvsfpqhik4x/asexual-and-sexual-reproduction/</p> <p>Topic 5. Reproduction in male and female</p> <p>LINK:</p> <p>https://www.slideshare.net/diojoeyrichard/male-reproductive-system-15216719</p> <p>https://www.slideshare.net/sandeshkamdi/female-reproductive-system-12211932</p>
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4. กลุ่มสาระการเรียนรู้สังคมศึกษา ศาสนาและวัฒนธรรม

★ สังคมศึกษา

Topic 1 – Geography

Key Vocabulary – Green revolution, Malthus, birth rates, death rates, global warming, degradation, migration, nationalism, globalization, scarcity and exponential.

Description – There will be a section on selecting the best answer from a multiple choice options. There will be a section on using the vocabulary to complete sentences. There will be a section on describing the vocabulary. There will be a section on describing the pros and cons of Malthusianism. There will be a section on writing a short essay.

5. กลุ่มสาระการเรียนรู้ภาษาต่างประเทศ

★ English Grammar Exam Topics

All questions will be based on the material covered in chapter 1 (Beginnings) and chapter 2 (Stories) of Aim High 6 by Tim Falla and Paul A Davis.

TOPIC 1: Reading Comprehension

Description – This section will include reading comprehensions where students must answer multiple choice questions about the text. The texts will be related to material covered in the course.

Aim – To test students understanding of written English texts and their ability to answer questions relating to the text

TOPIC 2: Grammar

(Present simple and present perfect continuous; Verb Patterns; Comparative and Superlative forms; Conditionals)

Description – In this section students will have to choose the most suitable answer to complete the grammatical structure

Aim -To test students' grammatical knowledge and application of this knowledge to written English.

TOPIC 3: Vocabulary

Description – Students must match the most suitable word to complete the sentence

Aim - To check students' depth of understanding of the vocabulary learned from chapter 3 and 4 of Aim High 6