



Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 1

Topic/Title. BIOLOGICAL STUDIES.

Unit No. ...1

Topic/Title NATURE OF LIVING THINGS

Time....4.....Hour

the format of the learning activities

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: The students participated with the activities which classifying the different samples of living and non-living things.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Students recognize and differentiate living things and nonliving things

4. Problems and obstacles

Students differentiate correctly living things and nonliving things by completing the activity which shows different organism of living things. they reflect of each living and non-living organism on the earth and the role of living thing in our environment and the earth is only the planet that can sustain life.

5. Suggestions / solutions

Students translate the words in Thai using Google Translate, so they can understand, elaborate, give more examples.

Signed the teacher.

(.....FERLIE AGRAVIADOR.....)

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This teaching notes according to the learning management plan have been checked by the head of English Program.

Signed

(Mr. Prapas Srithong)

Head of the English Program and Vice Director of academic management group



Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 2 Topic/Title.....BIOLOGICAL STUDIES

Unit No. ..1..... Topic/Title Different fields of Study in Biology..... Time...6....Hour

the format of the learning

activities.....

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: ~~students are able to identify biological field of study which are the study of living things.~~

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Students are able to determine different fields of study in biology, by describing each study and careers.

4. Problems and obstacles

Most students required additional clarification on the interconnections between these fields

5. Suggestions / solutions

~~Students translate the words in Thai using Google Translate, so they can understand, elaborate, give more examples.~~

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 3

Topic/Title.....BIOLOGICAL STUDIES.....

Unit No. ..1..... Topic/Title: Scientific investigation in our daily lives Time....6.....Hour

the format of the learning activities....

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: Define the steps of the scientific method
Use the scientific method to create an experiment in their daily life.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Students applied the scientific method to a real- word scenario during group activities and shared their findings. Most students demonstrated understanding but some need clarity on forming hypothesis

4. Problems and obstacles

Some students struggled with distinguishing between hypothesis and predictions.

5. Suggestions / solutions

Students translate the words in Thai using Google Translate, so they can understand, elaborate, give more examples.

Signed the teacher.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 4

Topic/Title.....BIOLOGICAL SCIENCE

Unit No. ..2..... Topic/Title: FUN STEM ACTIVITIES AND ENGINEERING DESIGN Time....4....Hour

the format of the learning activities.....

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: Define the steps of the scientific method
Use the scientific method to create an experiment in their daily life.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner:

~~Students participated in a group activity to design and build a bridge using limited materials. Most teams successfully followed engineering design process, but few struggled with refining designs.~~

4. Problems and obstacles

Some groups focused on creativity, teamwork, and how well students followed the engineering design process, some groups let the one person to do it, some didn't bring any materials.

5. Suggestions / solutions

~~Students should bring materials and improve designs and increase structural strength.~~

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 5

Topic/Title.....BIOLOGICAL STUDIES..

Unit No. ...3..... Topic/Title: ~~Atom Elements and Compounds~~ Time....6.....Hour

the format of the learning activities

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: Identify elements and compounds shown in diagrams, Recognize elements and compounds from their formula, Explain the difference between elements and compounds

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students identified the parts of an atom and could distinguish between elements and compounds, some enjoyed the hands-on modeling activity but expressed interest in more real-life examples of compounds.

4. Problems and obstacles

Some needed reinforcement in understanding how chemical bonds form, some struggled with the idea of how bonds form to create compounds.

5. Suggestions / solutions

~~Students should explore common compounds and should write about their composition and uses.~~

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 6

Topic/Title.....BIOLOGICAL STUDIES.....

Unit No. ..4..... Topic/Title: The uses of Carbon compound in our life. Time....6....Hour

the format of the learning activities.....

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: students should be able to identify common carbon compounds, describe their properties, and explain their importance in daily life.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students found examples of carbon compounds in food and energy engaging but had difficulty grasping complex compounds like polymers.

4. Problems and obstacles

Some needed reinforcement in understanding how chemical bonds form, some struggled with the idea of how bonds form to create compounds.

5. Suggestions / solutions

Provide simplified examples of carbon compounds and their everyday uses, with visual or diagrams to support learning.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 7

Topic/Title.....BIOLOGICAL STUDIES.....

Unit No. ..4.....

Topic/Title: Introduction on Microscope

Time....6....Hour

the format of the learning activities.....

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: ~~students should understand the basic parts of a microscope, how to properly use it and its importance in scientific study.~~

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Students enjoyed viewing samples under microscope but found tricky to adjust the fine focus, investigate how microscope use with visuals and simplified slides for observations.

4. Problems and obstacles

Some students required more guidance to align and focus on specimens.

5. Suggestions / solutions

~~Provide step-by-step instructions for microscope use with visuals and simplified slides for observations~~

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 8

Topic/Title.....BIOLOGICAL STUDIES.....

Unit No. ..4.....Topic/Title:..STRUCTURE AND FUNCTION OF THE CELLS..

Time...6....Hour

the format of the learning activities....

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: ~~Students should understand the basic structure of plant and animal cell, identify the main organelles and explain their functions.~~

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students correctly identify and described the functions of key organelles.

4. Problems and obstacles

Some had difficulty differentiating between plant and animal cells.

5. Suggestions / solutions

Use an interactive tool (like Kahoot or Quizizz) to review cell structures and their functions in a fun and engaging way.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 9

Topic/Title.....BIOLOGICAL STUDIES.....

Unit No. ..4..... Topic/Title: ~~The Transportation of Substance of cells~~ Time....4....Hour

the format of the learning activities.....

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: ~~Students should understand the mechanism of passive and active transport, including diffusion, osmosis, facilitated diffusion and active transport process~~

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students demonstrated a solid understanding of passive transport mechanisms but required further clarification on active transport processes.

4. Problems and obstacles

Students need support in understanding the energy requirements and specific examples of active transport.

5. Suggestions / solutions

For struggling students, provide simplified diagrams and analogies to explain complex transport mechanisms.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 10

Topic/Title:.....BIOLOGICAL STUDIES.....

Unit No. ..4..... Topic/Title: ~~The Cellular respiration and function:~~ Time...4....Hour

the format of the learning activities.....

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: ~~Students should understand the stages of cellular respiration including glycolysis, the citric acid cycle and the electron transport chain, and explain their roles in energy production.~~

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

~~Most students demonstrated a solid understanding of glycolysis and the citric acid cycle but required further clarification on the electron transport chain and its role in ATP production.~~

4. Problems and obstacles

Students need support in understanding the role of oxygen in the electron transport chain

5. Suggestions / solutions

Expand more the roles of cells in the cell respiration using video clips

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 11

Topic/Title.....BIOLOGICAL STUDIES.....

Unit No. ..5..... Topic/Title: Metabolism.. Time...4....Hour

The format of the learning activities: Introduction, discussion, presentation, guided activities, and assessment related to metabolism and its importance in living organisms

1. Learning management

- ☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.
- ☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.
- ☒ The lesson deviated from the management plan **because Students required additional explanation and examples to understand metabolism and its importance in maintaining cellular activities.**

2. Evaluation of learning management

- ☐ The number of students who passed the assessment was ...25....., or.....100.....%
- ☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

~~Most students demonstrated a basic understanding of metabolism and its importance in living organisms.~~

~~4. Problems and obstacles~~

~~Some students had difficulty connecting metabolic processes with everyday biological activities.~~

~~5. Suggestions / solutions~~

~~Use simple diagrams, examples, and review activities to reinforce the basic concepts of metabolism.~~

Signed the teacher.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 12

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Anabolism and Catabolism

Time: 4 Hours

The format of the learning activities: Comparison, discussion, examples, classification activities, and assessment.

1. Learning management

- ☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.
- ☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.
- ☒ The lesson deviated from the management plan **because Students needed additional examples to distinguish anabolic and catabolic processes.**

2. Evaluation of learning management

- ☐ The number of students who passed the assessment was ...25....., or.....100.....%
- ☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students were able to distinguish between anabolism and catabolism.

4. Problems and obstacles

Some students confused the functions and characteristics of the two metabolic processes.

5. Suggestions / solutions

Provide comparison charts, simple examples, and classification exercises.

Signed the teacher.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 13

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Enzymes

Time: 4 Hours

The format of the learning activities: Discussion, visual presentation, guided activities, examples, and assessment.

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management Students required additional explanation about the role and importance of enzymes in cellular reactions.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students demonstrated an understanding of enzymes as biological catalysts.

4. Problems and obstacles

Some students had difficulty understanding enzyme-substrate interactions.

5. Suggestions / solutions

Use simple diagrams and familiar examples to explain enzyme activity.

Signed the teacher.

(.....FERLIE AGRAVIADOR.....)

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 14

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Factors Affecting Enzyme Activity

Time: 4 Hours

The format of the learning activities: Discussion, interpretation of diagrams, examples, worksheet activities, and assessment.

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because:** Students needed additional time to understand how different conditions influence enzyme activity.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students were able to identify common factors affecting enzyme activity.

4. Problems and obstacles

Some students had difficulty interpreting graphs and explaining changes in enzyme activity.

5. Suggestions / solutions

Use simple graphs, illustrations, and examples to reinforce the relationship between environmental conditions and enzyme activity

Signed the teacher.

(.....FERLIE AGRAVIADOR.....)

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 15

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Cell Division

Time: 4 Hours

The format of the learning activities: Introduction, discussion, diagrams, group activities, sequencing activities, and assessment.

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because:** Students needed additional visual examples to understand the process and importance of cell division

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students demonstrated a general understanding of cell division and its importance to living organisms.

4. Problems and obstacles

Some students had difficulty understanding the sequence of events during cell division.

5. Suggestions / solutions

Use stage diagrams, sequencing cards, and repeated identification activities.

Signed the teacher.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 16

Topic/Title: BIOLOGICAL STUDIES

Unit No. 5

Topic/Title: Mitosis

Time: 4 Hours

The format of the learning activities: Discussion, visual presentation, identification activities, sequencing exercises, and assessment.

1. Learning management

- ☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.
- ☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.
- ☒ The lesson deviated from the management plan because: **** Students required additional practice in identifying and sequencing the stages of mitosis.**

2. Evaluation of learning management

- ☐ The number of students who passed the assessment was ...25....., or.....100.....%
- ☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students were able to identify the major stages of mitosis and explain its general importance.

4. Problems and obstacles

Some students confused the characteristics of individual mitotic stages.

5. Suggestions / solutions

Provide labeled diagrams and stage-ordering activities for reinforcement.

Signed the teacher.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 17

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Importance and Applications of Cell Division

Time: 4 Hours

The format of the learning activities: Discussion, examples, application activities, group work, and assessment.

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: * Students needed additional examples to connect cell division with growth, development, and repair.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students were able to explain the general importance of cell division in living organisms.

4. Problems and obstacles

Some students had difficulty connecting the cellular process with real-life biological examples.

5. Suggestions / solutions

Use everyday examples, diagrams, and short application questions.

Signed the teacher.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 18

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Cellular Respiration

Time: 4 Hours

The format of the learning activities: Introduction, discussion, diagrams, guided activities, and assessment.

1. Learning management

- ☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.
- ☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.
- ☒ The lesson deviated from the management plan because: Students required additional explanation about how cells obtain usable energy through cellular respiration.

2. Evaluation of learning management

- ☐ The number of students who passed the assessment was ...25....., or.....100.....%
- ☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students demonstrated a basic understanding of cellular respiration and its importance in providing energy for cellular activities.

4. Problems and obstacles

Some students had difficulty following the sequence of cellular respiration.

5. Suggestions / solutions

Use simplified flowcharts and diagrams to show the major stages and products of cellular respiration.

Signed the teacher.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 19

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Energy Production in Cells

Time: 4 Hours

The format of the learning activities: Discussion, process diagrams, comparison activities, worksheets, and assessment.

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: Students needed additional reinforcement to understand the relationship between glucose, cellular respiration, and energy production.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students were able to explain the general relationship between cellular respiration and energy production.

4. Problems and obstacles

Some students found it difficult to remember the major stages and terms associated with energy production.

5. Suggestions / solutions

Provide simplified diagrams, keyword charts, and short review exercises

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 20

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Review of Metabolism, Enzymes, Cell Division and Cellular Respiration

Time: 4 Hours

The format of the learning activities: Review discussion, concept mapping, group activities, worksheets, question-and-answer activities, and summative assessment.

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: Students needed additional reinforcement to understand the relationship between glucose, cellular respiration, and energy production.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students demonstrated an overall understanding of metabolism, enzymes, cell division, and cellular respiration. Students were able to recall the major concepts and relate them to basic cellular functions.

4. Problems and obstacles

Some students still had difficulty recalling detailed processes and distinguishing related biological concepts.

5. Suggestions / solutions

Conduct regular short reviews, use concept maps and visual summaries, and provide additional worksheets for students who need reinforcement.

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Record following the learning management plan

Academic Year: SY: 2026-2027 (First Semester)

Lesson Plan No. 21

Topic/Title: BIOLOGICAL STUDIES

Unit No. 4

Topic/Title: Review of Metabolism, Enzymes, Cell Division and Cellular Respiration

Time: 4 Hours

The format of the learning activities: Review discussion, concept mapping, group activities, worksheets, question-and-answer activities, and summative assessment.

1. Learning management

☒ instruction adheres to the learning management plan and achieves the stated indicators and objectives.

☒ Integration of morality, anti-corruption, civic duty, and the sufficiency economy philosophy.

☒ The lesson deviated from the management plan because: Students needed additional reinforcement to understand the relationship between glucose, cellular respiration, and energy production.

2. Evaluation of learning management

☐ The number of students who passed the assessment was ...25....., or.....100.....%

☐ the number of students who failed the assessment was 0..... percent, which was ...0... %

3. The effect on the learner

Most students demonstrated an overall understanding of metabolism, enzymes, cell division, and cellular respiration. Students were able to recall the major concepts and relate them to basic cellular functions.

4. Problems and obstacles

Some students still had difficulty recalling detailed processes and distinguishing related biological concepts.

5. Suggestions / solutions

Conduct regular short reviews, use concept maps and visual summaries, and provide additional worksheets for students who need reinforcement.

Signed the teacher.

(.....FERLIE AGRAVIADOR.....)

...../...../.....

This teaching notes according to the learning management plan have been checked by the head of
English Program.

Signed

(Mr. Prapas Srithong)

Head of the English Program and Vice Director of academic management group