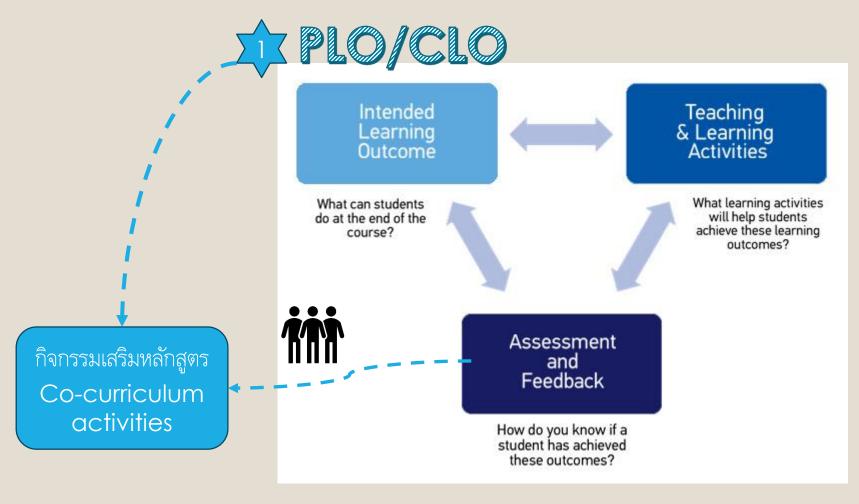
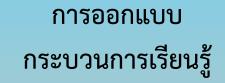


Constructive Alignment



เกณฑ์การตรวจสอบและรับรองหลักสูตร



- 1. เกิดกรอบคิดแบบเติบโต (Growth Mindset)
- นำสิ่งที่เรียนรู้ไปใช้กับโลกการทำงานจริงได้ PLO/CLO
 2.1 ตอบสนองความต้องการและความคาดหวังของผู้มีส่วนได้เสีย
 2.2 สอดคล้องกับผลลัพธ์การเรียนรู้ที่คาดหวัง

กระตุ้นให้ผู้เรียนเกิดการเรียนรู้ รู้จักวิธีแสวงหาความรู้ได้อย่างไร

วิธีวัดและประเมินผู้เรียน



บุคคลที่มี Growth Mindset มีลักษณะอย่างไร

- -บุคคลที่เชื่อว่า ทักษะและความรู้สามารถพัฒนาได้ผ่านการเรียนรู้และการฝึกฝน ไม่มีอะไรอยู่ เหนือความพยายามและความตั้งใจ
- -มองอุปสรรคว่าไม่ใช่ปัญหา แต่เป็นโอกาสที่จะลอง เรียนรู้ เพื่อแก้ปัญหานั้น
- -สามารถวิเคราะห์ความผิดพลาดที่เกิดขึ้น และลงมือทำเพื่อแก้ไขให้ดีขึ้น

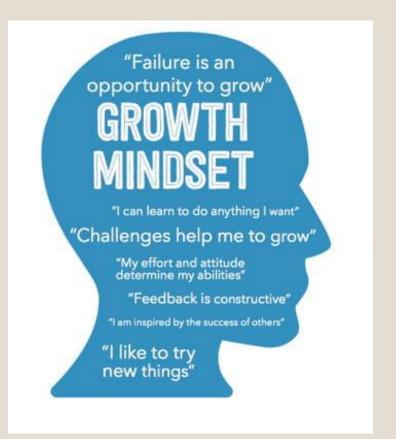




บทบาทผู้สอน

ออกแบบกระบวนการเรียนรู้ที่ผู้สอนมีส่วนร่วมในพัฒนาการการเรียนรู้
 ของผู้เรียน เพื่อกระตุ้น ให้กำลังใจ คำแนะนำ แก่ผู้เรียนในการพยายาม
 ลงมือเพื่อแก้ปัญหา ผ่านการค้นคว้าหรือฝึกฝน

ควรทำในหลายๆวิชา เพื่อให้ผู้เรียนผ่านหลายประสบการณ์จนเกิด
 ความเชื่อว่า ทักษะและความรู้ที่เกิดขึ้นนั้นมาจากความพยายาม



Teaching and Learning activities to create growth mindset

Challenges and Reflections:

- -Assign <u>challenging tasks or projects</u> that require students to step out of their comfort zones.
- -encourage them to reflect on their experiences, focusing on what they learned and how they grew from the process.

Mistakes as Learning Opportunities:

Create a classroom culture where mistakes are viewed as valuable learning opportunities.

Encourage students to share their mistakes and what they learned from them, promoting a

Goal Setting and Progress Tracking:

- -Guide students in setting specific, achievable goals for their academic and personal development.
- -Encourage them to **track their progress** regularly and celebrate small victories along the way.



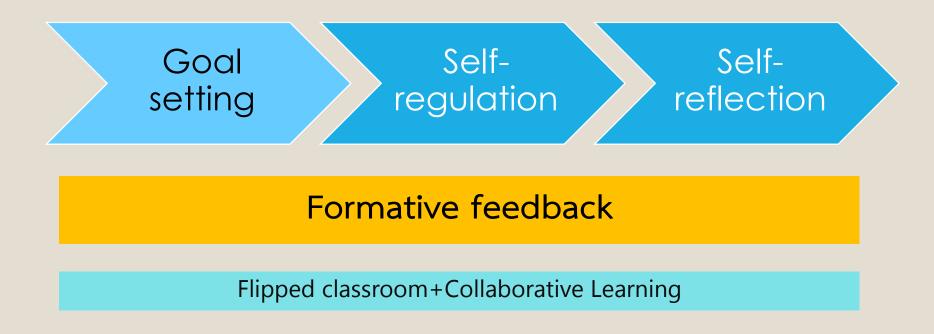
Case Studies and Stories:

Share stories of successful individuals who have overcome challenges through perseverance and a growth mindset.

Analyze case studies of famous scientists, entrepreneurs, or artists who faced difficulties but persisted.

sense of resilience and growth.

ประสบการณ์ของผู้เรียนผ่าน Project -based learning

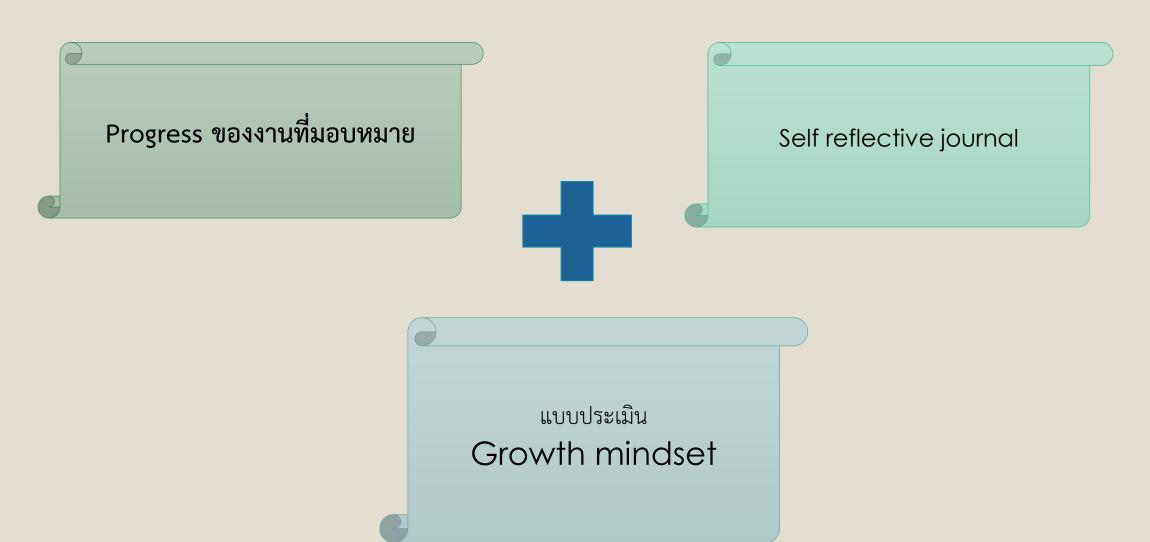


Collaborative Learning:

students work together to solve problems and achieve common goals.

Collaboration promotes resilience, teamwork, and the understanding that learning is a shared journey.

อาจารย์ผู้สอนวัดได้อย่างไรว่าผู้เรียนเกิด growth mind set



Post-audit workshop @KU (27/2/2024)

self reflective journal

Goal setting

Learn from mistakes



Learning require efforts



การประเมินผู้เรียนมีรูปแบบใดบ้าง

Assessment of Learning

Assessment for Learning

Assessment as Learning

Assessment methods

Summative assessment

It uses to demonstrate the achievement of the learners.

- -Written/oral exam
- -Quiz
- Homework/ assignment

Final grade/Certificate

Formative assessment

Provide feedback for learners to improve their competency for the next assessment.

Project-based Learning
Problem-based Learning
Experiential learning
Role play/simulation
Skill demonstration

Formative assessment

Learners do self-assess and self –regulate their learning to being an effective independent learner beyond formal education

Flipped classroom Reflective journal

Formative assessment

- วัตถุประสงค์ เพื่อให้ผู้เรียนทราบว่าตนเองยังพร่องหรือขาดความรู้ในเรื่องใด หรือต้องปรับปรุงหรือพัฒนาเรื่อง
 ใด ต้องไปเรียนรู้จากแหล่งใดเพิ่มเติม
- 💚 ต้องประเมินเป็นระยะเพื่อเป็นส่วนหนึ่งของกระบวนการเรียนรู้ของผู้เรียน
- 💚 งานที่มอบหมายแก่ผู้เรียนต้องเป็นโจทย์ที่ท้าทายความสามารถเพื่อบรรลุ CLO ที่มี learning level ที่ค่อนข้าง สูง

The Six Steps of Gibbs' Reflective Cycle



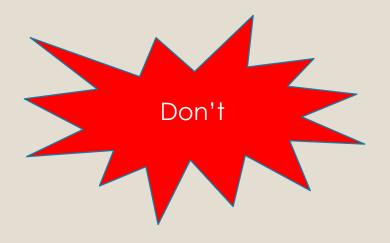
ใครที่สามารถให้ feedback แก่ผู้เรียน

อาจารย์ผู้สอนในรายวิชา
อาจารย์ที่ปรึกษาวิทยานิพนธ์
อาจารย์นิเทศสหกิจศึกษา /ฝึกงาน
อาจารย์พี่เลี้ยงที่สถานฝึก
ผู้ทรงคุณวุฒิภายนอก
เพื่อน

Tips on formative feedback



- ☐ Positive feedback/be polite
- Provide recommendations and solutions
- Motivate your students to create Growth mindset in



- Inform only the points earned or what is right/wrong
- ☐ Give a fixed answer
- Provide the comment at the END of the course

Example of Learning activities



Group discussion

Think/pair/share

Lecture-based learning

Role playing

Problem-based learning

Game playing

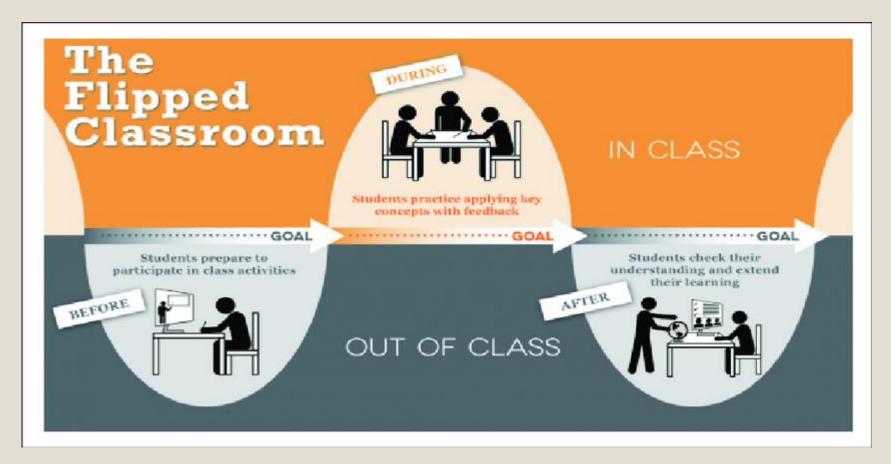
Laboratory work

Flipped classroom

Project-based learning

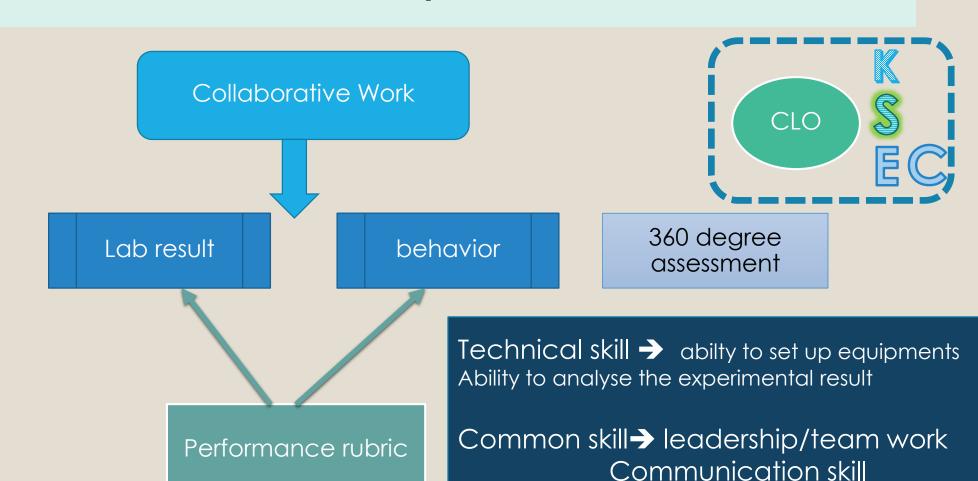
Assignment

Flipped Classroom



Source: Tourón, Javier & Campión, Raúl. (2015). Flipped Learning model and the development of talent at school. Revista de Educacion. 33-65. 10.4438/1988-592X-RE-2015-368-288.

Laboratory work



Problem solving skill

Project design Goal

The project is focus on challenging problem

- Open-ended (more than one possible answer)
- Aligned with learning outcomes
- exploration of new ideas to gain an understanding, to generate solutions,

The project is focused on teaching students specific and important Knowledge and Skill

<u>Common skill</u> are assessed such as critical thinking, creativity, collaboration.

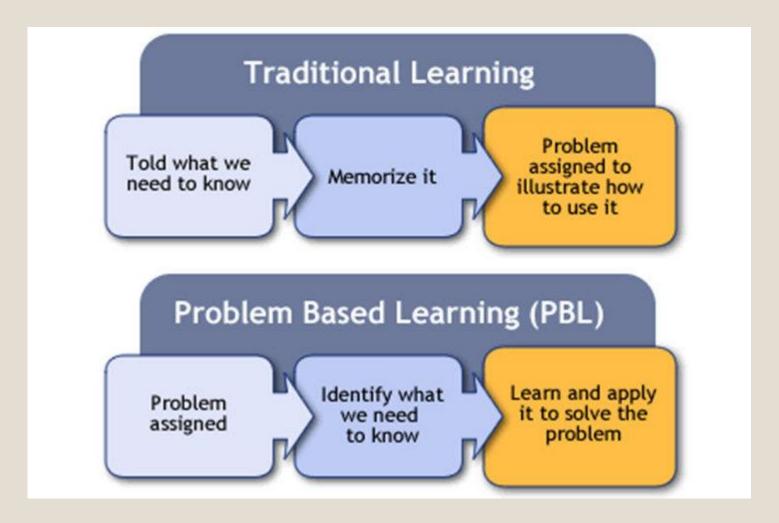
Project-based learning จะมีประสิทธิผลนำพาผู้เรียนไปบรรลุ Learning outcome เมื่อใด

Key success skills are taught using a variety of tools and strategies students are provided with opportunities to practice and apply them and reflect on progress.

Each student receives necessary instructional supports to access content, skills, and resources

Formative assessment must be done during the project progression

Problem-based Learning



Source: http://www.faridyoussef.com/problem-based-learning

Problem-based Learning

Outcomes → theory building
Main activity → inquiry of problematic situation

Engage students in realworld tasks

Student-center, small group work

Self-directed learning

Teacher as facilitator for learning and resource guide

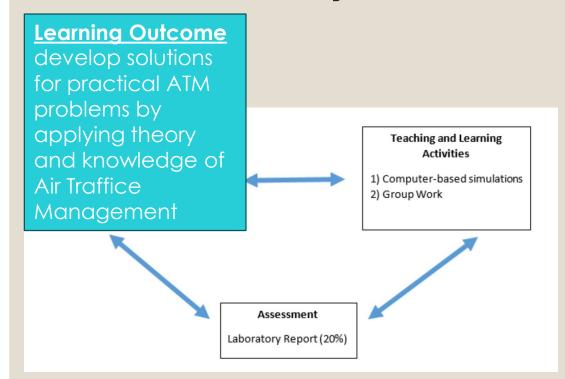
Project-based Learning

Outcomes →
prototype/solution
Main activity → producing applicable results

Formative assessment + peer evaluation

ตัวอย่าง

หลักสูตร Aeroscape Engineering



Intended Learning Outcomes (LO)	Assessment	Teaching & Learning Activity
Apply theory and knowledge of Air Traffic Management (ATM) to develop solutions for practical ATM problems	Laboratory Report (20%) During the laboratory session, you will conduct simulation, modelling and evaluation of a real-world problem and/or of various concepts that you have learned during the lecture. This is a teambased activity where a team of two/three students carries out laboratory work and document their findings. This report is a part of the formative assessment for the course.	Computer-Based Simulations This will allow you to develop realistic solutions to complex problems and will facilitate creative problem-solving. Group Work This will provide the opportunity for you to learn from one another and to become active participants in the learning. With group-based work, students will develop skills valued by employers (such as problem-solving, negotiation, conflict resolution, leadership, critical thinking and time management).

In this example, one of the outcomes is that students are able to "develop solutions for practical ATM problems by applying theory and knowledge of Air Traffic Management"

In order to measure this outcome, students, working as a team, will have to produce a laboratory report as part of their assessment which involves conducting simulation, modelling and evaluation of real-world problems.

Source: NTU

Assessment of Teamwork

o อาจารย์จะประเมินจากสิ่งใด

1.Product related outcomes will assess the quality of the final product. (e.g., presentation, report, research paper)

2. Process related outcomes will assess how well the team worked together and how each member contributed to the team. (e.g. ability to meet deadlines, contribute fairly, communicate effectively)

วิธีการประเมินการทำงานร่วมกับผู้อื่น teamwork

	Instructor-Led Assessment	Peer Assessment	Self-Reflection
Nature of task	The instructor will grade a student's contribution to the teamwork based on set criteria	Team members will grade each other's contribution	Each student will submit a self-reflection piece on their learning as a team
Ownership	Instructor	Students	Student and instructor
Effort	Scores to be tabulated by the instructor	Instructor to coordinate and tabulate scores from peer feedback	The instructor will grade all the self-reflection pieces
Time required	Short – Marks can be allocated during presentation / grading of group work	Medium – Scores will need to be tabulated after submission by the student	Long – Every reflection essay will need to be graded

ประเมินโดยผู้สอน

• Best for:

When we have the opportunity to observe students in their teams, this may be the quickest way to assess their contribution.

- For example, in some long-term project-oriented courses, instructors have several consultation sessions with students.
- It is thus possible to have a good sense of how the teams are working together as well as the contributions of individual members.

ตัวอย่าง rubric

รายงาง	นโครงงาน		รหัสนิสิต ชื่อนามสกุล			
cr	iteria	1	2	3	4	นาย รักเกษตร ตั้งใจเรีย
เนื้อหาที่นำเสนอ	การออกแบบการ ทดลอง	ออกแบบการทดลองไม่ ครอบคลุมกับวัตถุประสงค์ ของโครงงาน	ออกแบบการทดลอง ครอบคลุมกับ วัตถุประสงค์ของ โครงงาน	ออกแบบการทดลองครอบคลุมกับ วัตถุประสงค์ของโครงงาน โดยมี กระบวนการ validate ผลการทดลอง	ออกแบบการทดลอง ครอบคลุมกับ วัตถุประสงค์ของโครงงาน โดยมีกระบวนการ validate ผลการทดลอง	3
	การสร้างสรรค์ แนวคิดใหม่	ไม่พบการใช้เทคนิควิธีการ ใหม่ในการแก้ไขปัญหา	มีการใช้เทคนิควิธีการ ใหม่ในการแก้ไข ปัญหาแต่ผลลัพธ์ยัง	มีการปรับปรุงเทคนิควิธีการเล็กน้อย และได้ผลลัพธ์ที่ดีขึ้น	มีการนำเทคนิควิธีการที่ คิดค้นด้วยตนเองมา ประยุกต์กับโครงงานและ	4
คุณภาพรายงาน	การใช้ภาษา	สะกดผิดหลายจุด จัดรูปแบบไม่เหมาะสม	สะกดผิดเล็กน้อย จัดรูปแบบเหมาะสม	ไม่พบคำสะกดผิด จัดรูปแบบ เหมาะสม เรียบเรียงหัวข้อได้เหมาะสม	ไม่พบคำสะกดผิด จัดรูปแบบเหมาะสม เรียบ เรียงเนื้อหาในแต่ละหัวข้อ	4
	รูปภาพ ตาราง	พบว่ามีชื่อรูปภาพ/ตารางไม่ เหมาะสมกับเนื้อหา	ชื่อรูปภาพ/ตาราง สอดคล้องกับเนื้อหา	ชื่อรูปภาพ/ตารางสอตคล้องกับ เนื้อหา มีการอ้างอิงที่มาของรูป	ชื่อรูปภาพ/ตาราง สอดคล้องกับเนื้อหา	3
			คะแนนรวม			14

ประเมินโดยสมาชิกในกลุ่ม

1) Teamwork Evaluation Criteria

Criteria (Weighs)	Score from 1 to 9 ^{1,2} (1: Never; 3: Rarely; 5: Occasionally; 7: Frequently; 9: Always)									
(For 6-members team)	Member A	Member B	Member C	Member D	Member E					
Member name										
a. Fulfilling one's responsibilities duly (15%)										
Behaved responsibly—such as attend meetings punctually and regularly; participate in			Score from 1 to	9						
discussion; complete assigned tasks/roles punctually.										
		Qualita	ative comments	s/reasons						
b. Fulfilling one's responsibilities effectively (25%)										
Behaved and contributed effectively—such as quality of work produced; creativity of ideas;	Score from 1 to 9									
extensiveness of research and thinking.										
	Qualitative comments/reaso									
c. Managing interpersonal relationships (30%)										
Listened attentively to and sought inputs from others; helped team resolve conflicts and			Score from 1 to	9						
achieved common understanding to function effectively; promoted respect for others and										
differences; fostered camaraderie.		Qualita	ative comments	s/reasons						
d. Providing support to others to achieve goals (30%)										
Behaved fairly and ethically—such as sharing responsibilities and giving credits. Exhibited			Score from 1 to	9						
group citizenship behavior—such as helping others to learn and complete their work										
through guidance and encouragement; standing up for others when needed.	Qualitative comments/reasons									

¹Score of 1 should be given only when a team member does not really deserve to be awarded any mark for the team assignment (i.e., zero mark) because the member either has not or has barely participated and/or contributed to the team assignment in any meaningful manner.

²See detailed score descriptions for each criterion in Appendix 3b.

Teamwork Evaluation Criteria – Score Descriptions

Please use the descriptors in to guide your evaluations. For example, if the peer exceeds the descriptor for "1" but does not yet meet the threshold described in "3", then select "2"

	1	2	3	4	5	6	7	8	9
	Never		Rarely		Occasionally		Frequently		Always
Behaved responsibly—such as attend meetings punctually and regularly; participate in discussion; complete assigned tasks/roles punctually.	Did not participate actively in team meetings at all (even though he/she might still be present.) Did not contribute any useful ideas that were relevant for getting the project completed. Did not submit any or usable work on time and never did so without prompting.		Rarely participated actively in team meetings. Rarely contributed useful ideas that were relevant for getting the project completed. Rarely submitted work on time and did so rarely without prompting.		Occasionally participated actively in team meetings. Occasionally contributed useful ideas that were relevant for getting the project completed. Occasionally submitted work on time and did so occasionally without prompting.		Frequently participated actively in team meetings. Often contributed useful ideas that were relevant for getting the project completed. Frequently submitted assigned work on time without prompting.		Always participated actively in team meetings. Always contributed useful ideas that were relevant for getting the project completed. Always submitted assigned work on time without prompting.
b. Fulfilling one's respo	nsibilities effectively (25%)								
	1	2	3	4	5	6	7	8	9
	Never		Rarely		Occasionally		Frequently		Always
Behaved and contributed effectively—such as quality of work produced; creativity of ideas; extensiveness of research and thinking.	Quality could not be evaluated because nothing relevant or usable was submitted.		Quality of work could be improved vastly; required major revisions before submission. Work reflected superficial effort in completing the project.		Quality of work could be improved; required some revisions before submission. Work reflected some effort in completing the project.		Quality of work was of reasonably acceptable standards; required minor revisions before submission. Work reflected reasonable effort in completing the project.		Quality of work was of highly acceptable standards; required no revision before submission. Work reflected extensive effort in completing th project.

	1	2	3	4	5	6	7	8	9
	Never		Rarely		Occasionally		Frequently		Always
Listened attentively to	Never listened to others.		Rarely listened to others.		Occasionally listened to		Frequently listened to		Always listened to
and sought inputs	Never attempted to help		Rarely attempted to help		others, with occasional		others, with frequent		others, always
from others; helped	team resolve conflicts.		team resolve conflicts.		attempts to help team		attempts to help team		attempted to help tear
team resolve conflicts	Never attempted to		Rarely attempted to		resolve conflicts.		resolve conflicts.		resolve conflicts. Alway
and achieved common	achieve common		achieve common		Occasionally attempted		Frequently attempted to		attempted to achieve
understanding to	understanding to function		understanding to function		to achieve common		achieve common		common understandin
function effectively;	effectively as a team.		effectively as a team.		understanding to		understanding to		to function effectively
promoted respect for	Never promoted respect		Rarely promoted respect		function effectively as a		function effectively as a		a team. Always
others and	for others, with no		for others, with rare		team. Occasionally		team. Frequently		promoted respect for
	attempt to foster		attempts to foster		promoted respect for		promoted respect for		others and
differences; fostered	camaraderie.		camaraderie.		others, with occasional		others, with notable		demonstrated
camaraderie.					attempts to foster		attempts to foster		consistent attempts to
					camaraderie.		camaraderie.		foster camaraderie.
D. Providing support to	others to achieve goals (3	0%)							
	1	2	3	4	5	6	7	8	9
	Never		Rarely		Occasionally		Frequently		Always
Behaved fairly and	Never took on a fair share		Rarely took on a fair share		Occasionally took on a		Frequently took on a fair		Always took on a fair
beliaved fairly and	Never took on a fair share		narely took on a fair share		Occasionally took on a	1	Frequently took on a rain		
•	of responsibilities; never		of responsibilities; rarely		fair share of		share of responsibilities;		.,
ethically—such as	of responsibilities; never gave appropriate credits		of responsibilities; rarely gave appropriate credits		fair share of responsibilities;		share of responsibilities; frequently gave		share of responsibilitie always gave appropria
ethically—such as sharing	of responsibilities; never gave appropriate credits to others. Never		of responsibilities; rarely gave appropriate credits to others. Rarely		fair share of responsibilities; occasionally gave		share of responsibilities; frequently gave appropriate credits to		share of responsibilitie always gave appropria credits to others. Alwa
ethically—such as sharing responsibilities, and	of responsibilities; never gave appropriate credits to others. Never attempted to help others		of responsibilities; rarely gave appropriate credits to others. Rarely attempted to help others		fair share of responsibilities; occasionally gave appropriate credits to		share of responsibilities; frequently gave appropriate credits to others. Frequently		share of responsibilitie always gave appropriat credits to others. Alwa attempted to help
ethically—such as sharing responsibilities, and giving credits.	of responsibilities; never gave appropriate credits to others. Never attempted to help others learn; never provided		of responsibilities; rarely gave appropriate credits to others. Rarely attempted to help others learn; rarely provided		fair share of responsibilities; occasionally gave appropriate credits to others. Occasionally		share of responsibilities; frequently gave appropriate credits to others. Frequently attempted to help		share of responsibilitie always gave appropria credits to others. Alwa attempted to help others learn; always
ethically—such as sharing responsibilities, and giving credits. Exhibited group	of responsibilities; never gave appropriate credits to others. Never attempted to help others learn; never provided guidance and		of responsibilities; rarely gave appropriate credits to others. Rarely attempted to help others learn; rarely provided guidance and		fair share of responsibilities; occasionally gave appropriate credits to others. Occasionally attempted to help		share of responsibilities; frequently gave appropriate credits to others. Frequently attempted to help others learn; frequently		share of responsibilitie always gave appropria credits to others. Alwa attempted to help others learn; always provided guidance and
ethically—such as sharing responsibilities, and giving credits. Exhibited group citizenship behavior—	of responsibilities; never gave appropriate credits to others. Never attempted to help others learn; never provided guidance and encouragement. Never		of responsibilities; rarely gave appropriate credits to others. Rarely attempted to help others learn; rarely provided guidance and encouragement. Rarely		fair share of responsibilities; occasionally gave appropriate credits to others. Occasionally attempted to help others learn;		share of responsibilities; frequently gave appropriate credits to others. Frequently attempted to help others learn; frequently provided guidance and		share of responsibilitie always gave appropriate credits to others. Alwa attempted to help others learn; always provided guidance and encouragement. Alway
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- Clarity has clear task instructions and assessment criteria.
- Validity provides the appropriate level of intellectual challenge and complexity, and enables students to demonstrate their attainment of the intended learning outcomes.
- Reliability is consistent across cohorts of students, and different assessors using the same criteria will come to the same decisions.
- Equitability is fair and equitable.
- Authenticity uses real-life or simulated contexts that engage students in applying knowledge and skills as they might be used in real or future worlds.
- Variety of assessment types ensures the range of learning required in the course is captured.
- Comprehensiveness strikes a reasonable balance between formative and summative assessment, and the frequency of assessment is reasonable and not overwhelming.

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