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About Rex K to 12 Pointers on KPUP

Dear Partners in Education,

Greetings of peace!

Part of the Department of Education's implementation of the K to12 Standards-based Education program is a mandate on Assessment (DepEd Order No. 73, s. 2012 – Guidelines on the Assessments and Rating of Learning Outcomes Under K-12 Basic Education Curriculum http://www.gov.ph/downloads/2012/09sep/20120905-DepEd-DO-0073-BSA.pdf), which includes a provision presenting the four levels of assessment popularly known as KPUP.

Assessment of students' learning outcomes may come in the form of exercise questions and projects. Formulating appropriate exercise questions and projects aligned to the level of learning outcomes and that will bring out or reveal these learning outcomes is where teachers say they sometimes face challenges and uncertainties.

There is a clamor from teachers for clarifications on how to properly implement KPUP in their classrooms. In light of this, Rex Book Store has endeavored to develop this additional teachers resource to shed light on KPUP – the K to12 Pointers on KPUP. This reference material on KPUP will guide teachers on how to formulate questions following KPUP (KNOWLEDGE, PROCESS, UNDERSTANDING, PRODUCT/PERFORMANCE). This material also shows KPUP as found in Rex worktexts, per subject and per level. The full material may be accessed in the Rex Interactive website via <u>www.rexinteractive.com</u>.

We hope that through this thorough identification of KPUP in Rex worktexts that this new resource material offers, you would gain confidence and peace of mind that you need in becoming effective educators. We are one with you in aspiring toward a successful implementation of the K to 12 basic education program for the benefit of our students. May our concerted efforts be the light to others as well as the mirror that reflects it.

Sincerely,

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Publisher's Note

A lot has been said on how the Philippine education system has deteriorated. But the fact is, schools are doing a much better job than they've ever done before. The difference is that the jobs that people need to do these days require much higher levels of numeracy, literacy, and critical thinking than the jobs that were available decades ago. This is where the disconnect comes from. So how do schools face up to this challenge? How do schools raise the level of achievement of students so that when the students leave school they will have the necessary knowledge and skills to be productive individuals?

Dylan Wiliam posits that schools can start by setting the learning goals and criteria for success for its students. Schools should be able to engineer effective classroom discussions, questions, and tasks that elicit evidence of learning and then provide feedback that moves learners forward. Schools and teachers should realize that they should activate students as instructional resources for each other, and activate students as owners of their own learning. All these strategies point to the use of assessment for learning or formative assessment as well as assessment of learning. Assessment for Learning is a type of assessment that *monitors student learning* to provide ongoing feedback that can be used by teachers to improve their teaching and by students to improve their learning. On the other hand, assessment of learning is when we *evaluate student learning* at the end of an instructional unit by comparing it against some standard or benchmark.

This issue will discuss assessment in a holistic view starting from formative to summative and to the National testing. Rex will provide examples of these different type of assessments in relation to the DepEd's KPUP levels of assessment. This issue will also contain examples of clustered KPUP in the five major subjects – Science, Math, English, Filipino, and Social Studies.

Through this issue of the Rex Pointers, I hope that Rex is able to help, even in a small way, by shedding light on KPUP and the assessment system as a whole.

Don Timothy I. Buhain Chief Operating Officer

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Standards-based Assessment

Aligning Classroom Assessment to the National Testing

by Ester Talam Faculty, La Consolacion College

National testing, or sometimes called high-stakes end of the year assessment, is the assessment that measures student achievement of state standards, in our case the DepEd standards. This is just one of the tests that a student takes for the entire year. Other tests would be the day-to-day classroom assessment which could be considered formative and the periodic exams, also called summative assessment, which measure understanding for a particular period or topic. All these assessments should be measuring the same competencies. Unfortunately however, confusion may arise because the observed knowledge, skills, and processes measured by these assessments may vary. Admittedly, there are substantive differences in how the National Testing is developed versus how the classroom assessments are made. The challenge, therefore, is to align Classroom Testing to the National Testing without losing sight of the role and value of the classroom or formative assessment.

According to Schneider, Egan, and Julian (2013), to maximize student achievement, teachers and large-scale assessment developers need to: (1) have the same interpretation of standards, (2) identify the same types of student achievement as evidence of mastery of the standards, and (3) collect evidence using the same types of robust practices when building assessment. Clearly, one of the most important parts of developing assessment is the teacher's understanding of the learning competencies. In some cases, teachers and schools should be able to "unpack" the standards or learning competencies to properly grasp what knowledge or skills the curriculum developers or content experts want to develop in the competency. More importantly, schools and teachers should have the same interpretation of the results (scores) as the State. This is where feedback is not only necessary but crucial in the development of the assessment. Lastly, standards- based assessment necessitates different types of formative assessments.

Purpose of Classroom Assessment:

Teachers use classroom assessment to determine what students know and can do with regard to the DepEd standards and learning competencies. Summative assessment answers the question, "How well is the student performing on what the student should know?" With summative classroom assessment, the teachers usually base the evidence of student's knowledge with the correct answers the student makes then the teacher will transfer to a grading scale to show the depth of the student's knowledge or skill.

In designing classroom assessment, Ruiz-Primo et al. (2010) maintain that teachers need robust content knowledge and pedagogy skills as prerequisites in creating effective classroom assessments. Teachers who have limited content knowledge, pedagogy skills, or both are unable to build their assessments to understand gaps in student's understanding.

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Relationships Among Assessment Sources:

Although the different assessment sources can have different intended sources, all should measure the understanding of the DepEd standards. The teachers should be able to triangulate the information to consistently show the real status of the student's proficiency. The knowledge, skills, and process measured by the classroom assessment will overlap with that of the periodic and the National testings. However, the classroom assessment should be able to cover these knowledge, skills, and process with more depth than the other two tests.

Teachers must understand the exit goals of the students in each grade level and key stages. Given the results of the formative and summative assessments, teachers should be able to predict how the students will perform in the National Testing. If and when the teacher's prediction is disconfirmed, then the teacher should investigate the source of the discrepancy.

Steps to Investigate Performance Difference Between Classroom and National Testing:

Step 1: Compare What Is Being Measured

Step 2: Compare How Items Are Aligned to the DepEd Standards

Step 3: Review Student Work from Classroom Assessment

Finally, according to the USA National Board for Professional Teaching Standards (NBPTS) (as cited by Egan et al.) (2003), an accomplished teacher is one who is well versed in the uses and purposes of a variety of assessment tools, shares grading criteria with students prior to assessment, interprets assessment data accurately, and uses data gathered from varied sources of assessment to inform instruction. Central to these attributes are the teacher's ability to interconnect the standards, curriculum, instruction, and assessment.

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A Guide in Assessing Knowledge, Process, Understanding, and Performance/Product

by Carlo Magno, PhD Faculty, De La Salle University-Manila

Education in the Philippines has reformed to the K to 12 Enhanced Basic Education. Part of this reform is the development in the process of assessing student learning. The skills that need to be assessed in the classrooms are presented in a nomenclature on knowledge, process, understanding, and performance/product. This nomenclature was proposed in order to develop the necessary skills of schoolchildren. In the past curriculum, educators used different taxonomies that guided their assessment of students' learning such as the revised Bloom's Taxonomy, Gagne's Taxonomy, Stiggins and Conklin's Taxonomy, Marzano's Dimensions of Learning, DeBono's Six Thinking Skills, and others. The new curriculum provides standards and a mechanism how to assess appropriately these standards.

At present, the Department of Education proposed that students need to be assessed on the domains of knowledge, process, understanding, and product/process (DepEd Order No. 31, s. 2012). This nomenclature were made in order for the students to reach the content and performance standards of the curriculum. The assessment system is described to be "holistic" where teachers use both formative assessment and summative assessment. Formative assessment involves students accomplishing a bank of items accompanied by a series of feedback. It is non-threatening and provides students a series of practice for the mastery of the lesson; it reinforces students understanding and interest in the subject matter (Black & William, 2003; Gonzales & Birch, 2000). Kulik and Kulik (1998) explained that the best assessment practice incorporates several assessment and feedback that enhances students' learning. The nature of formative assessment provides a more authentic nature of student learning because it is a combination of what the students know and how to monitor their progress. On the other hand, summative assessment is given when students have mastered the lesson, to determine the learners' achievement on a unit or course. Formative assessment is emphasized in the new assessment system in order to help students reach the standards. Through a series and multiple assessments, the teacher is able to see the immediate evidence of what students have learned and, therefore, be able to design and adjust the instruction based on their needs.

Assessment in the K to 12 becomes more useful to help students learn better. This brings in mind the idea of assessment "for" learning. According to Stiggins (2001), "when we assess for learning, teachers use the classroom assessment process and the continuous flow of information about student achievement that it provides in order to advance, not merely check on, student learning" (p. 5). This process requires teachers to become assessment literate where they should have the ability to transform their expectations into assessment activities and utilize the assessment results to further improve their instruction and eventually student learning.

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A more contemporary viewpoint of assessment is also introduced. Through formative assessment, the process of assessment becomes closely integrated with instruction and becomes instruction itself. Teachers may provide activities through games, small groups, exercises that immediately provide information on how the teacher begins his/her instruction. The teacher, after teaching some small bits of skills, follow through with immediate assessment to determine if the lesson will be repeated or who among the students need further help. The actual activities in the classroom such as games can provide information to the teacher about what the students can and cannot do.

Assessing Knowledge

Knowledge was defined by the Department of Education as facts and information that students need to acquire. The knowledge domain contains similar skills with Bloom's Taxonomy that includes defining, describing, identifying, labeling, enumerating, matching, outlining, selecting, stating, naming, and reproducing. Examples of questions to assess the knowledge domain would include the following examples:

Learning Areas	Performance Standards	Assessment Questions
English	Note specific details of the text listened to.	Who is the main character in the story?
Mathematics	Order sets from least to greatest and vice versa.	Arrange the following numbers from highest to lowest value: 8, 6, 9, 4, 3, 7.
Science	Label the external parts of the human body.	Point where the eyes are in the illustration of the human body.
Araling Panlipunan	Nailalarawan ang mga anyong lupa.	Natutukoy ang iba't ibang anyong lupa.
Filipino	Natutukoy ang ginamit na unlapi sa bawat salita.	Guhitan ang unlapi sa bawat salita.

Table 1Examples of Questions for Knowledge

Assessing Process

Process was defined by the Department of Education as a cognitive operation that the student performs on facts and information for the purpose of constructing meanings and understanding. Cognitive operations are specific procedures, tasks, heuristics, strategies, techniques, and mental processes that learners use in order to arrive with an answer. It is concerned with what individuals will do, think about, and go through in order to derive with an answer. Cognitive operations are manifested when students answer word problems in mathematics and show the teacher the strategy they used to arrive with their answer. After students explain the concept of electricity in science, the teacher may ask how they learned the concept. An English teacher can ask students their techniques on how they identify adjectives and adverbs in a sentence.

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Table 2Examples of Questions for Process

Learning Areas	Assessment Questions	Cognitive Operations
English	What strategy did you use to identify the topic sentence in the paragraph?	Strategic thinking
Math	Prove that $2 \times 10^2 = 100 + 100$.	Proving answers
Science	How did you learn the information that plants make their own food?	Techniques in generating knowledge
Araling Panlipunan	Paano mo mapatutunayan na tinulungan ng mga Amerikano ang mga Pilipino noong Ikalawang Digmaang Pandaigdig?	Proving answers, data gathering
Filipino	Paano mo malalaman kung ang isang lupon ng mga salita ay parirala o pangungusap?	Strategic thinking

The cognitive operations involve the use of metacognition, self-regulation, and learning strategies. Metacognition is thinking about one's thinking. According to Winn and Snyder (1998), metacognition is a mental process that involves monitoring the progress in learning and making changes and adapting one's strategies if one perceives he is not doing well. On the other hand, process skills are also manifested through self-regulation. Self-regulation is defined by Zimmerman (2002) as self-generated thoughts, feelings, and actions that are oriented to attaining goals. Learners who are academically self-regulated are independent in their studies, diligent in listening inside the classroom, focused on doing their task inside the classroom, gets high scores in tests, able to recall teacher's instruction and facts lectured in class, and submits quality work (Magno, 2009). The idea now is that teachers do not only teach the content but also teach and assess these processes among students.

Table 3 Examples of Tasks for the Metacognitive Process

Metacognitive Factor	Activity
Declarative Knowledge	Knowing what is needed to be solved Understanding one's intellectual strengths and weaknesses in solving math problems
Procedural Knowledge	Being aware of what strategies to use when solving math problems Having a specific purpose of each strategy to use
Conditional Knowledge	Solving better if the case is relevant Using different learning strategies depending on the type of problem
Planning	Pacing oneself when solving in order to have enough time Thinking about what really needs to be solved before beginning a task

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Information Management Strategies	Focusing attention to important information Slowing down when important information is encountered
Monitoring	Considering alternatives to a problem before solving Pausing regularly to check for comprehension
Debugging Strategies	Asking help from others when one doesn't understand Stoping and going over if it is not clear
Evaluation of Learning	Rechecking after solving Finding easier ways to do things

Assessing Understanding

Understanding was defined by the Department of Education as the enduring big ideas principles and generalizations inherent to the discipline which may be assessed using the facets of understanding. The perspective of understanding by Wiggins and McTighe (2005) is used. The big idea is "a concept, theme, or issue that gives meaning and connection to discrete facts and skills" (p. 5). Understanding is to make connections and bind together our knowledge into something that makes sense of things. Wiggins and McTighe (2005) further elaborated that understanding involves "doing" and not just a "mental act" and thus includes application. Understanding is classified into six facets: explain, interpret, apply, have perspective, empathize, and have self-knowledge.

Explain	Provide thorough and justifiable accounts of phenomena, facts, and data.	Why is it that fruits that are in season have cheaper prices?
Interpret	Tell meaningful stories, offer apt translations, provide a revealing historical or personal dimension to ideas and events; make subjects personal or accessible through images, anecdotes, analogies, and models.	What trend can be described in the graph shown? What is the meaning of the statement "an eye for an eye, a tooth for a tooth"?
Apply	Effectively use and adapt what they know in diverse contexts.	Which of the following situations use the first law of motion?
Have perspective	See and hear points of view through critical eyes and ears; see the big picture.	How will you classify insects if you are a frog? What will be the stand of the religious groups on the RH Bill?
Empathize	Find value in what others might find odd, unknown, unfamiliar, or implausible; perceive sensitively on the basis of prior indirect experience.	Why did Lapulapu immediately decided to fight Magellan when they were asked to pay taxes?
Have self- knowledge	Perceive the personal style, prejudices, projections, and habits of mind that both shape and impede our own understanding; they are aware of what they do not understand and why understanding is so hard.	If the long method of multiplication is difficult for you, what other methods can you use to perform the same task? Why is the long method procedure difficult for you?

Table 4 Six Facets of Understanding

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Assessing Products/Performances

Product and performance was defined by the Department of Education as real-life application of understanding as evidenced by the students' performance of authentic tasks. This technique assesses what it is that students know and can do with the emphasis on doing. Students perform, create, construct, produce, or do something. Tasks that are authentic have a high degree of realism about them. Performance and product assessment involve activities for which there is no correct answers, continuous over an extended period of time, and involves selfevaluation of performances. Likely, use open-ended tasks aimed at assessing integrated higher level cognitive skills. The product and procedure shown and demonstrated by the students is marked using checklists, rubrics, and scales.

English	Compose a letter informing your school principal about your intention to run in the student council. Provide all the necessary parts of a letter.
Mathematics	Construct a poster illustrating the flight path of a basketball in a parabola. Estimate the vertex and roots. Students after computing will demonstrate the maximum height the ball bounced and total distance the ball traveled.
Science	Conduct an experiment to demonstrate the effect of a pollutant on the photosynthetic process of a leaf.
Filipino	Sumulat ng isang tula tungkol sa iyong paboritong pagkain.
Social Studies	Create a presentation to promote tourist spots in the Philippines. Include at least 10 pictures and provide a caption for each.

Table 5 Examples of Performance and Product Assessment

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References:

- Black, P., & Wiliam, D. (2003). In praise of educational research: formative assessment. *British Educational Research Journal*, 29(5), 623–637.
- DepEd Order No. 31, s. 2012 (2012). Policy guidelines in the implementation of grades 1 to 10 of the K to 12 basic education curriculum (BEC) effective school year 2012-2013. Department of Education.
- Gonzalez, G. M., & Birch, M. A. (2000). Evaluating the instructional efficacy of computermediated interactive media: Comparing three elementary statistics tutorial modules. *Journal of Educational Computing Research*, 22, 411–436.
- Kulik, J. A., & Kulik, C. C. (1988). Timing of feedback and verbal learning. *Review of Educational Research*, 58, 79–97.
- Magno, C. (2009). Assessing and developing self-regulated learning. *The Assessment Handbook*, 1, 26–42.
- Wiggins, G., & McTighe, J. (2005). *Understanding by design*. Alexandra, Virginia: Association for Supervision and Curriculum Development.
- Winn, W., & Snyder, D. (1996). Cognitive perspectives in psychology. In D. H. Jonassen (ed.), Handbook of Research for Educational Communication and Technology (pp. 112–142). New York: Simon & Schuster MacMillan.
- Stiggins, R. J. (2001). The unfulfilled promise of classroom assessment. *Educational Measurement: Issues and Practice*, 20(3), 5–15.
- Zimmerman, B. J. (2002). Becoming a self-regulated learner: An overview. *Theory into Practice*, 41, 64–72.

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A Closer Look on How to Develop Assessment Questions and Activities

by Carlo Magno, PhD

One of the most important competency of teachers is their ability to conduct proper assessment of student learning. This is even espoused by the American Federation of Teachers (AFT), National Council on Measurement and Evaluation (NCME), and National Education Association (NEA) in the United States. In the Philippines, the Department of Education (DepEd) has developed the National Competency Based Teaching Standards. Part of this standard is the fifth domain on **"Planning, Assessing, and Reporting**." This competency refers to the alignment of assessment and planning activities. The dimension focuses on the use of assessment data to plan and revise teaching-learning plans; integration of assessment procedures in the plan and implementation of teaching-learning activities, and reporting of the learners' actual achievement and behavior. The subdomains include:

- The teacher communicates promptly and clearly the learners' progress to parents, superiors, and to learners themselves.
- The teacher develops and uses a variety of appropriate assessment strategies to monitor and evaluate learning.
- The teacher monitors regularly and provides feedback on learners' understanding of content.

The assessment competencies developed by the AFT, NCME, and NEA provides a comprehensive set of standards on how teachers should practice assessment. This set of standards was developed in order to fully realize the benefits of student assessment and address the problem of inadequate training of student assessment. There were seven principles drawn in the standards (AFT, NCME, & NEA, pp. 1–2):

- 1. Teachers should be skilled in choosing assessment methods appropriate for instructional decisions.
- 2. Teachers should be skilled in developing assessment methods appropriate for instructional decisions.
- 3. Teachers should be skilled in administering, scoring, and interpreting the results of both externally-produced and teacher-produced assessment methods.
- 4. Teachers should be skilled in using assessment results when making decisions about individual students, planning teaching, developing curriculum, and school improvement.
- 5. Teachers should be skilled in developing valid student grading procedures which use student assessments.

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- 6. Teachers should be skilled in communicating assessment results to students, parents, other lay audiences, and other educators.
- 7. Teachers should be skilled in recognizing unethical, illegal, and otherwise inappropriate assessment methods and uses of assessment information.

The teachers need to keep in mind some of the principles in the assessment of student learning. These principles help the teachers integrate assessment close with instruction, and use assessment results to help students learn better.

Principle 1: Assessment should be well aligned with students' objectives, competencies, and educational standards. How should teachers decide what to assess? They need to go back on what is espoused in the objectives found in the lesson plan, syllabus, and national competencies. It is very important for teachers to have knowledge on the content of the curriculum. This guides them where to bring the students, and the outcome they need to expect from their students. If the objective indicates "demonstrate how to sew using running stitch," then students should be presenting in front of the class and demonstrating how sewing is done using running stitch. In this case, students should not be assessed by enumerating the type of stitches but should be focused on what the students can perform. If the competency requires students to draw, illustrate, and design the actual performance, these behaviors should be shown by the students. The teacher is guided by the competencies in the curriculum in order to decide on the appropriate assessment.

Principle 2: Assessment should become more like instruction. A contemporary perspective on assessment is that it is part of instruction. In the traditional perspective, assessment takes a different time and is separated with instruction. This practice makes assessment disjointed with instruction and the target competencies. The contemporary perspective where instruction and assessment are integrated allows the teachers to determine at an early stage the evidence of student learning, hence, instruction is well tailored for the learners. Through formative assessment, students are provided with immediate feedback, practice on the skill, and consequently reach mastery. Teachers teach skills into smaller chunks in order to build mastery. When instruction is immediately followed by assessment, the teachers are signaled on how to make adjustments in the instruction. The integration between assessment and instruction can be shown in the following examples:

- · Asking critical questions to build on the lesson
- · Giving activities to survey students' prior knowledge before starting a new topic
- Giving feedback that is specific to the students' work to engage them in doing excercises (e.g. essay writing)
- · Providing board works after a series of teaching episodes
- · Posing guide questions to students in case studies/analysis exercises
- Providing corrections on misconceptions during instruction

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Principle 3: Assessment results are needed to be used by teachers to help students learn **better.** The utility value of assessment should be regarded as an important skill of teachers. How do teachers make use of assessment results to help students learn better? The primary purpose of assessment is not to arrive with marking and rank ordering students, but rather to help students learn better. Drills and exercises are given to diagnose the learning needs of students. These needs, as a result of the assessment, are addressed by the teachers. The outcome of assessment should be used by the teachers to design better instruction for the students. The instruction considers activities suited for beginners, proficient, and advance learners. The teachers should be skilled how to make meaning and resource for designing the instruction. For example, after a teacher identifies that 75% of the students could not yet divide a 2-digit number with a 1-digit number, the teacher provides for remediation, re-teaching, more exercises with worked out solutions, and more techniques how to divide. The remaining 25% of the students are provided with advance work. Careful planning of instruction needs to consider previous assessment results to determine what the students need. For example, previous instruction where group work was used resulted to low levels of student mastery signalling the teacher to shift instruction or improve the implementation of group work.

- **Principle 4:** Assessment is NOT used to threaten and intimidate students. Giving quizzes and surprise tests when students are noisy is a misconception of assessment. Students who miss assignments are punished with a difficult test is a misconception of assessment. Intentionally asking difficult questions to misbehaving students is also a misconception of assessment. Giving a failing student a special project is also a misconception. The problems with noise can be handled with proper classroom management skills of the teacher. Students who miss assignments should be properly motivated. Questions are asked to all students to demonstrate their ability to think. If a special project is given to one student, all students should also be given the chance to increase their grades. The conduct of assessment is meant to help students and not as a consequence of misbehavior.
- **Principle 5:** Teachers should encourage the learning community to engage in assessment. Teachers are not the only ones who conduct assessment. Students also assess their own work through self-assessment. As classmates, they are also given a chance to assess each others' work through peer assessment. A 360° assessment allows the entire learning community to build a culture of professionalism, improvement, and adherence to standards. Capacitating the entire community on the assessment competency builds a professional learning community. The ASCD has developed three big ideas about the professional learning community ensures that students learn. The intention of assessment is to help students improve their learning and targets the first big idea. A professional learning community builds a culture of collaboration. If all teachers, students, and administrators agree on the standards to be reached by their students, then this act of collaboration builds excellence. Collaboration is done for school improvement and



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removing barriers to success. Professional learning communities are keen on focusing on results of efforts. The teachers make themselves conscious of the results of students' achievement and use them to improve students' learning.

Principle 6: Assessment is a technical competency. Teachers realize that assessment is not an ordinary skill, but a technical skill that requires training, experience, practice, and study in order to be developed. Teachers should be able to conduct analysis of assessment results by determining which items are easy and difficult, which items can discriminate abilities and which could not. Part of this technical competency is the ability of the teachers to use assessment data to determine if the assessment is valid and reliable. The teachers can use some statistical tools in order to determine the internal consistency and temporal stability of the test items. They ask a reviewer to content validate the items in their test together with the table of specifications they constructed. They use results of a test to determine if the test is correlated with other criterion such as students' grades, other standardized tests, and other measures. When teachers are provided with the results, they are literate about the position of the students by looking at the percentile rank. The teachers know how to interpret the standard scores and in any way they are converted.

The principles provided imply that the teaching profession, especially in the conduct of assessment is not a simple task. It would require teachers to reflect, study, and allow feedback from others in order to improve. As part of the reflection and assessment process, teachers at the end of the day assess whether what their students have learned and how they can make this learning develop further.

Dr. Carlo Magno has taught from basic education to higher education. He taught courses on measurement, evaluation, assessment of student learning, research methods, scaling theory, and advance psychometric theory. He published more than 85 articles in scientific and refereed journals. He is the 2011 Outstanding Young Scientist by the National Academy of Science and Technology and the 2012 Global Young Scientist by the Global Science Academy. He has also received several awards for his excellence in teaching in De La Salle University, Manila. Dr. Magno has conducted various trainings to teachers and students in the field of education.

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Examples of Clustered KPUP

English Grade 3 1st Quarter

Knowledge	Process	Understanding	Performance
What words with the	What picture matches the	Choose five words	Listen to the story/
CVC pattern have the	given word? Draw a picture	you learned that have	text to be read by your
short vowel a/e/i/o/u?	to illustrate each of the given	the short o. What is	teacher. (Listening
(Phonics/Word	words.	the meaning of each	Comprehension)
Recognition)	a. mat	of these words? Draw	
	b. bed	a picture to illustrate	
	c. pin	each word or write	
	d. dog	a sentence using	
	e. cup	it. (Phonics/Word	
	(Phonics/Word Recognition)	Recognition)	

Filipino Grade 2 1st Quarter

Knowledge/Pangkaalaman na Tanong Paksa: Bagong Alpabetong Filipino

Punan ng tamang titik ang patlang batay sa pagkakasunod-sunod ng mga titik sa bagong alpabetong Filipino.

- 1. Bb ____ Dd Ee
- 2. Ww Xx Yy

Process/Pangkasanayang Tanong Paksa: Mga Salitang Magkatugma

Basahin ang pangkat ng mga salita sa bawat bilang. Lagyan ng tsek (\checkmark) ang salitang hindi katugma ng salitang nasa kanan.

1. baboy	kahoy	langoy	loob
2. tasa	paso	pasa	basa

Understanding/Pang-unawang Tanong Paksa: Pangangalan/Panghalip

Isulat ang titik ng tamang sagot sa patlang.

- 1. Ano ang pangngalang nagsasaad ng pangalan ng lalaking bata?
 - C. Α. Anna B. Pinay

RA

D. Pipay

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Noynoy

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- 2. Ano ang pangngalang di-tiyak na nagsasaad ng pangalan ng tao?
 - A. ale

- C. anak
- B. kuya D. nanay

Product/Pamproduktong Tanong Paksa: Pabula (Si Pagong at si Matsing)

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Isalaysay muli ang kwento ng pabulang "Si Pagong at Si Matsing" sa pamamagitan ng mga Iarawan.



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				1	
Pamantayan	Walang Kahusayan 1	Kailangan ng Ibayong Husay 2	Papunta sa Pagiging Mahusay 3	Mahusay 4	Napakahusay 5
Kaalaman sa Nilalaman ng Kwento	Walang nabuong kwento	 Hindi kakikataan ng pangunahing paksa ang pagkukuwento Hindi malinaw ang mga pansuportang ideya sa pagpapalutang ng kuwento Hindi kompleto ang kuwento 	- Kakikitaan ng pangunahing paksa ang pagkukuwento - Ang pagkukuwento ay masyadong mahaba/ masyadong maikli	 Mahusay na binuo ang kuwento dahil masasalamin ang orihinal na akda Makikitaan ng mga ideyang nakapaloob sa orihinal na teksto Nagtataglay ng mga pangungusap at talata mula sa narinig na pagkukuwento 	 Ang pagkukuwento ay nagpapakita nang matatag na pagbuo ng ideya na makikita sa orihinal na teksto Ang pangunahin at pansuportang detalye ay mahusay na nailatag katulad ng orihinal Ang haba ng kuwento ay tamang- tama lamang Maayos na nabuo ang talata para sa pagkukuwento
Organisasyon Gamit ang Larawan	Walang nabuong simula, katawan, at wakas	 Hindi malinaw na simula, katawan, at wakas Hindi gumamit ng <i>transitional devices</i> sa pagkukuwento batay sa larawan 	- Hindi gaanong malinaw ang simula, katawan, at wakas - Gumamit ng mga <i>transitional</i> <i>devices</i> ngunit hindi naging malinaw ang paglilipat diwa ng pagkukuwento batay sa larawan	- Maayos ang simula, katawan, at wakas - Maayos ang mga <i>transitional devices</i> na ginamit upang mailipat ang diwa ng pagkukwento batay sa larawan	 Napakahusay ng pagbuo ng simula, katawan, at wakas na makikita sa orihinal na teksto Gumamit ng mga <i>transitional devices</i> na makatutulong sa kalinawan ng mga larawan Nailipat nang maayos ang diwa sa bawat larawan
Boses	- Walang malinaw na pagbigkas sa mga salita sa kuwento - Napakahina ng boses	- Hindi makikitaan ng malinaw na pagbigkas ng mga salita sa kuwento - Mahina ang boses	- Medyo malinaw ang pagbigkas ng mga salita habang nagkukuwento - Medyo malakas ang boses	 Malinaw ang pagbigkas ng mga salita habang nagkukwento Ang mga talasalitaan ay sapat at angkop Malakas ang boses 	 Napakalinaw nang pagbigkas ng mga salita habang nagkukuwento Napakalakas ng boses na akma lamang para sa dami ng tagapakinig
Durasyon ng Pagkukuwento	Napakabagal ng pagkukuwento na tumagal sa 10 minuto pababa	Mabagal ang pagkukuwento na tumagal ng 8 minuto	Medyo mabagal ang pagkukuwento na tumagal ng 6 na minuto	Mabilis ang pagkukuwento na tumagal ng 5 minuto	Tamang-tama lamang ang oras ng pagkukuwento na tumagal ng 3–4 na minuto

Rubric Para sa Pagsasalaysay na Pasalita

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Math Grade 3 1st Quarter

Knowledge

What is the value of each digit in the following number?



Process

Estimate by rounding each number to the nearest hundreds before adding.

a. $435 + 671 \approx ___+___$ $= ____$ b. $6749 + 3285 \approx ___+__$

Understanding

Fill in the missing numbers.

	?	?	?	?
+	1	2	3	4
	3	5	7	9

Product/Performance

You are a restaurant owner. You want to create a new recipe of a Filipino dish. Search the Internet to find a good recipe for the dish you have in mind and list all ingredients needed. Your task is to use an inventory list to first estimate the cost of each ingredient, and then calculate the cost of purchasing the ingredients needed. Explain if your estimate is reasonable.

Inventory List

Ο

Fish: Php 150 each

Chicken: Php 227 per kg

Meat: Php 286 per kg

Vegetables: Php 51 per kg

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Fruits: Php 153 per kg Flour: Php 164 per kg Milk: Php 204 per liter Butter: Php 238 per 500 g Eggs: Php 108 per dozen Sugar: Php 40 per 250 g Salt: Php 10 per 100 g

Your work will be checked in terms of planning strategies and steps, mathematical prowess and accuracy, and verbal and written communication.

Science Grade 3 1st Quarter

Knowledge

Identify whether the following are solid, liqiud, or gas:

- 1. orange juice
- 2. eraser
- 3. cloud
- 4. notebook
- 5. cooking oil

Process

Multiple Choice: Write the letter of the correct answer on the space provided.

What material should you use to determine the temperature of an object?

- a. Meter stick c. Thermometer
 - b. Barometer d. Beaker

Understanding

True or False: Write **true** if the statement is true and **false** if the statement is false.

- 1. Solids can change its size.
- 2. An orange juice is in an oval-shaped jug, if you will power the juice in a rectangular container, the shape of the orange juice will also become rectangular.

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Performance

States of Matter in an Erupting Volcano

Make a model of a volcano using clay. To make the volcano look like it is erupting, make some space inside the crater of the volcano. Place some baking soda (solid) in the crater and add some vinegar (liquid). The baking soda and vinegar will react to form bubbles (gas). The students will be graded according to the following criteria:

Creativity	60%
Presentation	40%
TOTAL =	100%

Social Studies Grade 2 1st Quarter

Knowledge

Basahing mabuti ang mga pangungusap at piliin ang titik ng tamang sagot.

1. Alin sa sumusunod na mga larawan ang nagpakita ng isang komunidad?



2. Ano ang karaniwang tawag sa isang grupo ng mga taong naninirahan nang sama-sama at mapayapa sa isang lugar?

С.

A. Koleksyon

B.

22

- Kapaligiran D. Komunidad
- 3. Kung ang komunidad ay ginagambala ng mga magnanakaw, sino ang dapat tawagin?
 - A. Doktor C. Bombero
 - B. Pulis D. Guro

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Siyudad



Process/Skill

Iguhit ang mapa ng iyong komunidad. Gumamit ng mga pananda (*legends*) na iyong natutuhan upang maipakita nang wasto ang mahahalagang impormasyon ng iyong komunidad sa iyong mapa. Gumamit ng mga pangkulay para sa gawaing ito. (5 puntos)



Batay sa larawan sa itaas, ilarawan ang iyong komunidad sa loob ng lima hanggang pitong pangungusap. Gamitin ang mga patlang sa ibaba. (5 puntos)





Understanding

Bakit mahalaga ang pagkakaroon ng isang maayos na komunidad? Ipaliwanag sa loob ng apat hanggang limang pangungusap ang iyong sagot.

Performance/Product (5–10 Points Activity with Rubrics/GRASPS Format)

Naglunsad ang Ayala Museum ng kanilang taunang *art contest* kung saan inaanyayahan ang mga mag-aaral mula sa mababang paaralan na gumawa ng isang larawan na nagpapakita ng kahalagahan ng pagiging kasapi sa isang komunidad. Ikaw ay inatasan na maging delegado para sa *art contest* na ito. Gagawa ka ng isang larawan na naaayon sa tema ng patimpalak, may malinis at malikhaing interpretasyon, at may magandang dating sa mga titingin.

Pamantayan	Katangi-tangi	Mahusay	Kailangan pa ng pagsasanay
Linaw ng interpretasyon	Malinaw at maayos ang mga interpretasyon ng mga dahilan na ipinapakita sa <i>artwork</i> .	Malinaw ang mga interpretasyon ng mga dahilan na ipinapakita sa <i>artwork</i> .	Hindi gaanong malinaw ang mga interpretasyon ng mga dahilan na ipinapakita sa <i>artwork</i> .
Nilalaman ng impormasyon	May limang batayang impormasyon tungkol sahalaga ng pagiging bahagi ng isang komunidad.	May apat batayang impormasyon tungkol sa halaga ng pagiging bahagi ng isang komunidad.	May tatlong batayang impormasyon tungkol sa halaga ng pagiging bahagi ng isang komunidad.
Dating sa mga tumitingin (<i>audience</i>)	Napakaganda ang dating sa manonood dahil sa linaw ng mensahe nito.	Maganda ang dating sa manonood dahil sa linaw ng mensahe nito.	Hindi gaanong maganda ang dating sa manonood dahil sa hindi gaanong maganda ang mensahe nito.
Kalinisan at pagkamalikhain	Ang <i>artwork</i> ay napakalinis tingnan at kakikitaan ng magandang balanse ng mga kulay.	Ang <i>artwork</i> ay malinis tingnan, at kakikitaan ng balanse ng mga kulay.	Hindi gaanong malinis tingnan ang <i>artwork,</i> at hindi gaanong kakikitaan ng magandang balanse ng mga kulay.

Rubric sa Paggagrado

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