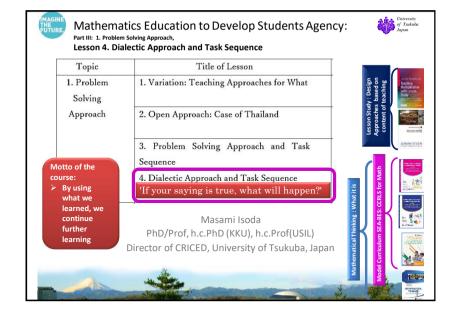
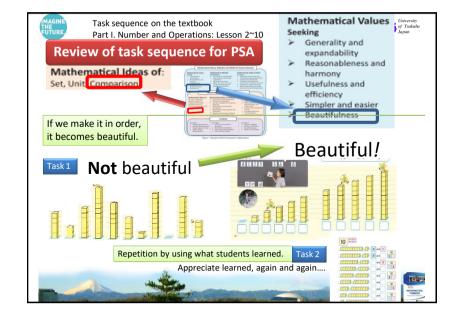
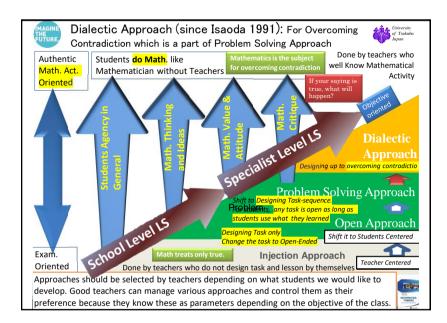
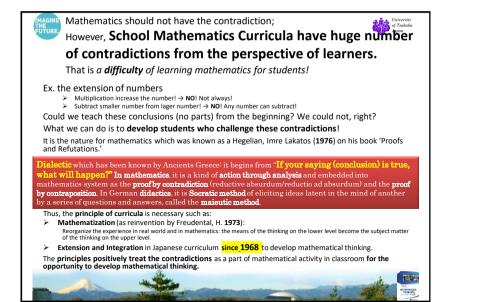
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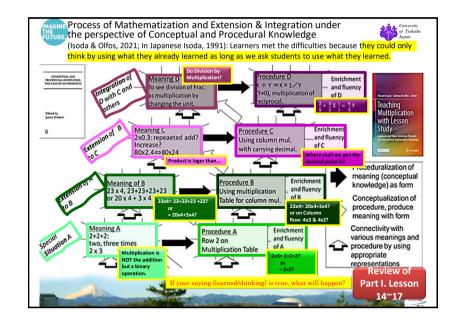


In case, we do not have the	Values, Attitudes and Habits for Human Character
textbook which has appropriate task sequence:	Mathematical Attitude Mathematical Habits of Mind Reference
teachers need to enjoy the activity to design task	े How students are able to 🛛 🛔 👔 हु 🚮 हु
sequence for which	reflect and appreciate by and
students can think mathematically by themselves.	How students are able to reflect and appreciate by and for themselves? hematical Thinking and Processes Through repetitions of appropriate (well designed)
	hematical Thinking and Processes
First Step: Local manner for preparing tomorrow's class	
<ul> <li>Enjoy problem solving on your textbook by yourself</li> </ul>	🚦 Through repetitions of 👘 🛓 🕉
for knowing how we can solve it by <b>only using</b>	appropriate (well designed)
<ul> <li>what already taught.</li> <li>&gt; Imagine your students can</li> </ul>	task sequence 🛱 ទួ
apply it or not. If not, set Task 1 for reviewing the	Thinking Forward and Backward > Representation and Sharing
complementary of what they should already learned	Thinking Forward and Backward Thinking Forward and Backward Contents Japoanese Textbook (Gakkko Tosho) is an
That is a most necessary preparation for today's class.	Japanese Textbook (Gakkko Tosho) is an exemplar which provide the appropriate task sequence. Further Step: General manner
> Then, plan to do discussion	appropriate task sequence.
by using students' solution of the task 2 (problem) which is existed on your	Further Step: General manner Design unit plan or curriculum via using terminology









(1) 2. + 1. 2	-			SHERRALLES AND CONTROL OF AND CONTROL OF AND CONTROL OF AND CONTRO
Situation	Meaning	Procedure	Explanation	Appropriateness
I Introduction of calculation in vertical notation using whole numbers (integer)	Decimal notation system meaning	Write (A) 23 +5 (B)	The meaning of a decimal notation system is based on the procedure of keeping decimal points in alignment. ( <i>The meaning</i> <i>and procedure match</i> )	Appropriate

## Originated from Extension from Whole Number to Decimal Number

Programmed Emergence of Misconception in Curriculum/Teaching Anyone cannot avoid: It is an Epistemological Obstacle.

Where does it come from? (1) 2.3 (2) 23 + 1.25 + 125 If your saying is true, what will happen? For example							
Situation	Meaning	Procedure	Explanation	Appropriateness			
I Introduction of calculation in vertical notation using whole numbers (integer)	system meaning	Write A) 23 +5 B) $+5$	The meaning of a decimal notation system is based on the procedure of keeping decimal points in alignment. ( <i>The meaning</i> <i>and procedure match</i> )	Appropriate			
II Becoming proficient in whole numbers	? (Forgotte r <mark>(C)</mark>	Align to the right and write	When children become proficient, they no longer need to think about the reason they follow that procedure. As a result, the procedure is simplified from the alignment of the decimal points to one of right-side alignment.	Valid by Proficiency (Procedure itself has meaning in some cases)			
III Application to the decimal numbers	(No meaning)	Align to the right and write	The procedure for whole numbers is generalized for decimal numbers.	Inappropriate (Contradiction) Background			

