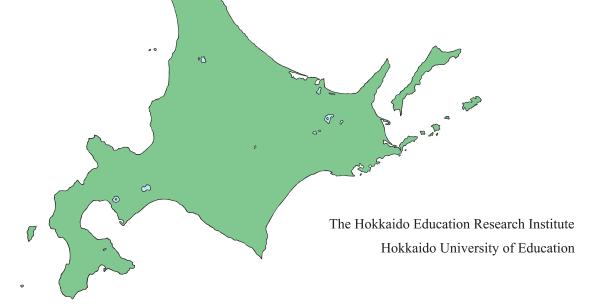
Joint Project of Hokkaido University of Education and Hokkaido Government Board of Education

How to Instruct for Multi-grade Classes

~For freshman or inexperienced teachers~



英語版 「複式学級における学習指導の在り方~初めて複式学級を担任する先生へ~」

翻訳 北海道教育大学国際交流・協力センター

Foreword

Schools in Hokkaido with multi-grade classes are practicing excellent education based on their own characteristics, making use of their originality and ingenuity. Such practices are regarded as a progressive approach to the "formation of distinctive schools" required these days. At the same time, however, quite a number of participants of our Institute's multi-grade educational training courses have problems, such as "having difficulty in instruction in multi-grade classes" or "not being able to find many books on instruction in multi-grade classes." Our Institute took such opinions seriously and decided to produce this document as a guidebook on "how to instruct for multi-grade classes" for teachers who are newly assigned to schools with multi-grade classes.

Our Institute has been committed to the production of this document through research cooperation with Professor Fumie Murata of the Research Center for Rural Education, Hokkaido University of Education, as part of joint research under the "Memorandum on Partnership between Hokkaido University of Education and the Hokkaido Board of Education," which was concluded on February 22, 2001, for the purpose of improvement and development of education in Hokkaido.

This document is focused on "instruction by grade," which is a type of instruction in multi-grade classes, and devotes many pages to the basic concept of such instruction.

Lastly, I would like to express my deepest gratitude to the Hokkaido Federation for Research on Rural and Multigrade Education and all the other parties for providing us with valuable materials and comments, and I am truly looking forward to contributing to the improvement and development of rural and multi-grade education in Hokkaido through the publication of this document.

September 2001

Isao ENDO

Director, The Hokkaido Education Research Institute

How to Instruct for Multi-grade Classes

- For freshman or inexperienced teachers -

Table of Contents

Foreword

1. Problems concerning instruction in multi-grade classes	76
2. Basic ideas of instruction in multi-grade classes	77
3. Types of instruction	79
4. Instruction by grade	
(1) Learning process of instruction by grade	81
(2) Direct instruction that leads to indirect instruction	83
(3) Preparation of classes for instruction by grade	85
(4) Clarification of the learning system	87
(5) Individually-targeted teaching in indirect instruction	89
(6) Evolutionary ideas for instruction by grade	91
5. Instruction of similar contents	93
6. Joint learning	95
7. Ensemble learning	97
8. Joint learning with other schools using an information communication network	99
9. Hours for Integrated studies	101

References

1. Problems concerning instruction in multi-grade classes

▼ What is a multi-grade class?

A multi-grade class is a class consisting of students of different grades, for example, "a class of third and fourth graders."

In recent years, Hokkaido has many multi-grade classes with an extremely small number of children (e.g., a class of one each of third and fourth graders) and unorthodox multi-grade classes (e.g., a class of third and fifth graders) due to the decrease in numbers of students and other reasons.

▼ What are the problems concerning educational guidance in combined classes?

Many teachers have come up with various ideas concerning instruction in multi-grade classes. For example, there are ways "to make students of one grade study by themselves while the teacher is teaching something new to students of another grade" or "to teach the contents of learning for two grades in two years by teaching the contents prepared by combining teaching materials for the two grades."

However, it is not easy for a teacher to perform learning activities for two grades simultaneously. Recent participants of multi-grade educational training courses of the Hokkaido Education Research Institute have listed the following problems concerning instruction in multi-grade classes:

○ Terms used for instruction in multi-grade classes are difficult.
O When a teacher is teaching children of one grade, children of the other grade cannot study properly by themselves.
O It is not very clear how to prepare lessons for multi-grade classes.

It can thus be seen that it is important to first understand the characteristics of multi-grade classes and learn the basic concept and methods of instruction. It is also necessary to incorporate various ideas depending on the actual conditions of individual schools, classes and students.

2. Basic ideas of instruction in multi-grade classes

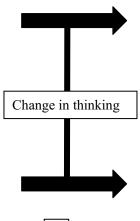
▼ Turning problems of multi-grade classes into advantages

Because of the small class size, children lack social experience in large groups.

② In the case of instruction by grade, students have less time to receive direct instruction from the teacher

<Problems>

③ Because the class consists of two grades, members of the class tend to change every year.



<Advantages>

- ① Because of the small class size, it is easy for the teacher to teach individual children.
- ② In the case of instruction by grade, students can have many opportunities to experience self-learning while the teacher is not attending to them.
- ③ Children can experience the standpoints of both upper- and lower-grade students as the class consists of two grades.

▼ Basic ideas of instruction in multi-grade classes

- ① By making the most of the small-size class, it is possible to ensure the learning of fundamentals through the detailed instruction of each child.
- ② By making the most of the many self-learning experiences, it is possible to foster the ability of children to learn and think for themselves.
- ③ By making the most of the two grade classes, it is possible to foster the attitude of learning from each other beyond their own grade.
- → It is important to plan instruction for multi-grade classes based on the idea of capitalizing on the advantages of multi-grade classes.

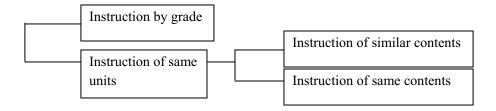
▼ Specific measures

0	Preparation of teaching materials, handouts, etc. depending on predicted learning activities of individual children			
0	Understanding of learning conditions of individual children in the learning process and promotion of improvement in instruction			
0	Sharing the joy of progress and growth of individual children			
rov	ement in hours of self-learning			
0	Establishment of a learning environment, in which a child or a group of children can engage in learning activities independently			
0	Flexible approach toward the combination of learning processes for two grades			
0	 Incorporation of ideas concerning instruction methods that can lead to self-learning 			
	ement in learning activities making the most of involvement with upper- rade students			
0	Promotion of awareness of responsibility as leaders among upper-grade stud			
0	Cultivation of aspiration in lower-grade students to improve themselves to the level of learning of upper-grade students			

3. Types of instruction

Since children of two different grades are taught simultaneously in multi-grade classes, it is necessary to give consideration to the contents and methods of instruction and incorporate new ideas.

▼ Main types of instruction



▼ Perspectives for selection of types of instruction

One of the above types of instruction for multi-grade classes is chosen by each school to prepare its instruction plan.

Perspectives for selection may include the following:

Children's conditions of achieving fundamental learning
Improvement in each child's motivation for learning
Systematization of learning contents and characteristics of each subject
O Future prospects of the number of children and class formation
Consideration to transfer students
Explanation to and understanding of parents

[→] When selecting a type of instruction for a multi-grade class, it is important to have a long-term vision while taking the advantages of each type and matters that require attention into account.

Example Main types of instruction in multi-grade classes

			Advantages	Combination		Matters that require attention
Instruction by gra		0	It is easy to grasp the developmental stage of each grade and systematicity of learning contents Influence of transfer students is small.	1 st grade 2 nd grade 3 rd grade 4 th grade 5 th grade	Japanese Arts and crafts Japanese "Let's read an explanatory note" Japanese "Let's write a letter" Social studies "People engaged in rice growing" Social studies "From the age of nobles to the age of samurais"	VIt is necessary to prepare learning procedures and methods and establish a learning environment so that learning activities can be continued without interruption.
Instruction of same units	Instruction of same contents	0	a collaborative learning environment for two grades.	3 rd and 4 th	grades Life and environmental studies "Let's play with snow" grades Music "Haru-no- Ogawa"	 ✓ Learning activities should be promoted depending on the difference in learning conditions and developmental stages by grade. ✓ Achievement of targets for individual subjects should not be hindered.
-	Instruction of similar	0	Children of two grades can share learning opportunities and a sense of unity is likely to form.	3 rd grade 4 th grade 5 th grade 6 th grade	Science "Passage of electricity" Science "Functions of electricity" Mathematics "Division of figures with decimals" Mathematics "Division of fractional numbers"	When making a combination, the annual instruction plan should be reconsidered to coincide with the time of instruction and allow some leeway in the number of hours.

Reference

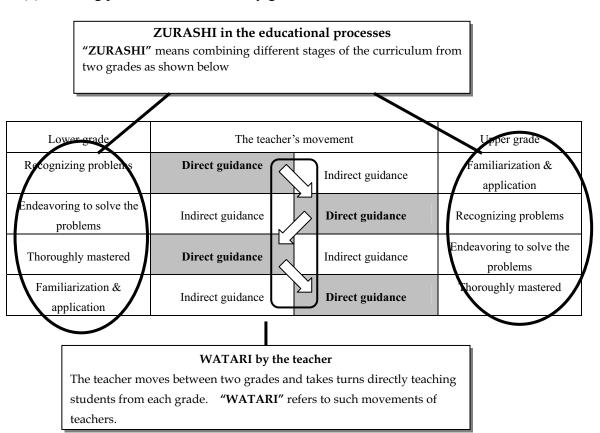
Some small-scale schools with multi-grade classes promote various types of learning beyond the boundary of classes and schools. For example, there are systems such as **joint learning** (see p. 20), **ensemble learning** (see p. 22), **exchange learning** for schools in different scales and living environments to have a sister-school relationship and have experiences that cannot be achieved by a single school, as well as **joint learning with other schools through an information communication network** (see p. 24).

4. Instruction by grade

Instruction by grade is a type of instruction to teach different subjects or different contents of a same subject to children of respective grades.

Since the teacher has to teach different contents to children of each grade, children in one grade study by themselves (**indirect instruction**) while the teacher is giving instruction to children of the other grade (**direct instruction**).

(1) Learning process of instruction by grade



→ It is necessary to discard fixed notions and view "ZURASHI" in the educational processes flexibly depending on the contents of learning and conditions of students.

Example Learning process of instruction by grade

[Development of learning activities in 1 unit hour]

Step	Lower grade	Teacher's	Upper grade	Step
1		movement	11 5	1
Recognizing problems	 □ Remember the lesson of the previous hour. □ Recognize the problem of this hour. □ Find the prospective solution. □ Know the solution procedure. 		☐ Use the result of the previous lesson and work on exercises and applied problems.	Familiari- zation & application
Endeavoring to solve the problems	☐ Try to solve the problem alone.☐ Check with each other in pairs or in a group.		 □ Remember the lesson of the previous hour. □ Recognize the problem of this hour. □ Find the prospective solution. □ Know the solution procedure. 	Recognizing problems
Thoroughly mastered	 □ Present the process and result of solution. □ Discuss to find the better solution. □ Reflect on and summarize the lesson. 		 □ Try to solve the problem alone. □ Check with each other in pairs or in a group. 	Endeavoring to solve the problems
Familiari- zation & application	 □ Work on exercises and applied problems using the summarized result. □ Have expectations for the next lesson. 		 Present the process and result of solution. Discuss to find the better solution. Reflect on and summarize the lesson. 	Thoroughly mastered

[Flow of learning of an entire unit]

		1		
Lower grade	Introduction of the unit	Development of the unit	Summary of the unit	Introduction of the unit
Upper grade	Summary of the previous unit	Introduction of the unit	Development of the unit	Summary of the unit

By staggering the learning process of a unit, it is possible, for example, to make it easier for children to engage in learning at the introduction of the unit.

(2) Direct instruction that leads to indirect instruction

It is important to consider the hours of indirect instruction as the hours that will foster children's ability to learn and think by themselves, rather than time merely for mechanical practice.

The role of direct instruction is therefore essential to allow children to study independently during the hours of indirect instruction.

▼ Matters that mainly require attention in direct and indirect instruction

Stage	Lower grade	Teacher's movements	Upper grade	Stage
Recognizing problems	(When the teacher is attending)			
	O Inc wil con O Co	corporate new ideas in llingness to learn (e.g. nnection to things that	ire attention in direct instrato presentation of problems., presentation of something thave already been learned) ocedure (e.g., method, quant dy").	to enhance real,
Endeavoring to solve the problems	(When the teacher is not attending)			
		how the learning proc guidance for study"). nsure the conditions t	uire attention in indirect in redure in advance (e.g., use o support learning (e.g., use and applied problems, smal).	of notices and

For instruction by grade, it is important that children themselves understand the learning methods and procedures.

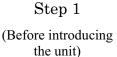
Example Direct instruction that leads to indirect instruction

[Mathematics 5th grade "Area of a triangle"]

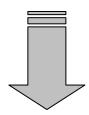
Step	Children's learning activities	Teacher's movements
Recognizing problems	Remember the previous lesson (how to find the area of a parallelogram) Let's think how to find the area of the triangle below.	 [Important points of movements that can lead to efforts in solving the problem] ▼ Enhance the willingness to solve the problem by making use of things previously learnt. ▼ Provide prospects for solution. ▼ Give a viewpoint for discussion.
	 It may be possible to find it in the same way as before. Change the shape by cut and paste. Think by doubling the area. Confirm the learning procedure. 	☐ Is it possible to find it in the same way as before? ☐ "Then, let's think how we can find the answer using one method. When you finish, think using another method. When the time comes, let's have a discussion. We will talk about two things: "How you found the answer" and "How you can express it in an equation of words."

[Important points of movements that can lead to effort to solve the problem] Thoroughly O Summarize the results mastered ▼ Recognize the solution process and discussion of discussion. Think of the triangle results. as half of a ▼ Explain the content that must be thoroughly parallelogram. mastered in easy terms. Make two rectangles Confirm that it is easy to make mistakes with and think of the similar problems. triangle as half of them. • It is easier to think as half of a ☐ Recognize the results of the trial and error process parallelogram. and discussion. The equation of words ☐ Present various ideas using OHP. is "base x height ÷ Induce the equation of words (formula) from an easier way to find the answer. ☐ Present a variety of triangles to confirm what the "bottom" and "height" are.

(3) Preparation of classes for instruction by grade



- Confirm the goal of the unit for two grades based on the systematicity of the contents of learning.
- O Confirm the criteria, viewpoints and method of assessment of the unit for the two grades.

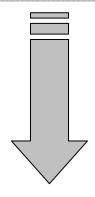


[Example] Goal of the unit and assessment

	Grade []	Grade []
Goal of the unit		
Assessment criteria for the unit		
Assessment method		

Step 2 (When making the teaching plan for a specific unit)

- O Confirm the degree of comprehension on matters already studied.
- Adjust the plan by combining the learning processes of the unit for the two grades.



[Example] Instruction plan for the unit

	Grade []	Tea	cher	Grade []
1 st	Orientation			Summary of the
hour				previous unit
2 nd	Recognizing problems			Orientation
hour	Endeavoring to solve			
	the problems			
	Thoroughly mastered			
	Familiarization &			
	application			

Step 3

(When making the teaching plan for a unit hour)

- Instruct repeatedly to clarify the contents to be mastered and the problems to be solved by the children themselves and combine the two learning processes.
- O Predict the learning activities of individual children and prepare accordingly.

[Example] Instruction plan for one unit hour

Grade []	Teacl	her Grade []
Recognizing problems		Familiarization &
		application
Endeavoring to solve the problems (problems to be solved through research and task-oriented study)		Recognizing problems
Thoroughly mastered (contents to be mastered)		Endeavoring to solve the problems (problems to be solved through research and task-oriented study)
Familiarization & application		Thoroughly mastered (contents to be mastered)

[→] For instruction by grade, it is important to be fully prepared for the lesson by conducting research on teaching materials for both grades, combining learning processes effectively and predicting learning activities of individual children.

(4) Clarification of the learning system

In schools with multi-grade classes, it is important to make the most of indirect instruction to foster children's ability to learn during hours of instruction by grade.

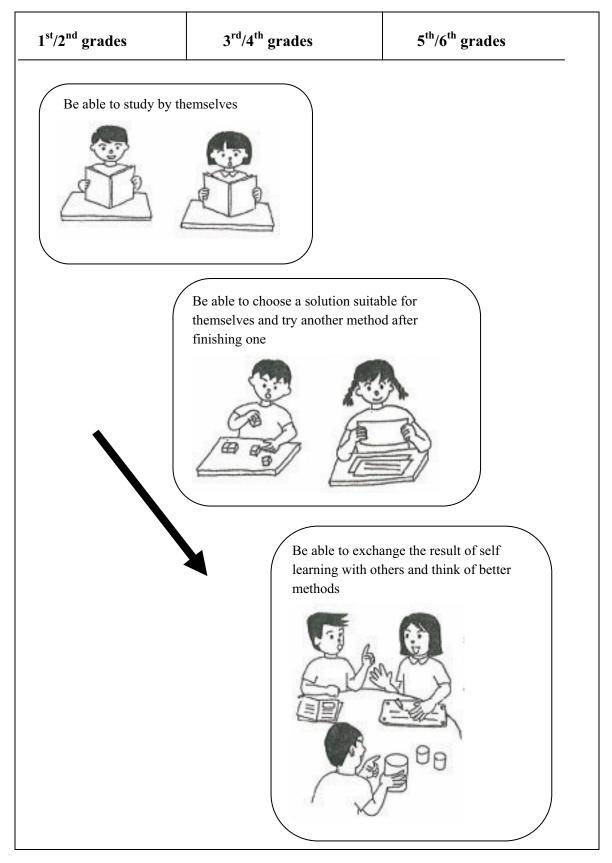
To realize this, it is necessary to achieve the educational goal of the school by clarifying the learning system for the entire school in consideration of the six school years (three years in junior high schools).

[Example] Learning system

Item	1 st /2 nd grades	3 rd /4 th grades	5 th /6 th grades
Ideal image of children	Be able to follow the	Understand the	Be able to make a
to be fostered	rules in the class and	procedure and method	study plan from their
	engage actively in	of learning and be able	own perspectives and
	learning.	to engage actively in	engage in learning
		learning.	independently.
Preparation for leaning	Be able to prepare	Be able to review the	Be able to grasp the
	study tools for the next	previous lesson with	main points of the
	lesson.	willingness or think	previous lesson and
		about the contents of	clarify their own
		the current lesson	learning tasks.
		when the time comes.	
How to make remarks	Be able to answer	Be able to focus on the	Be able to talk
	when called by the	main points and talk	logically and in an
	teacher and talk clearly	with appropriate	easy-to-understand
	to the end.	volume and speed.	manner.
How to listen	Be able to look at the	Be able to ask	Be able to listen to the
	speaker and listen until	questions and listen	main points of the
	the end.	while thinking	speaker and notice the
		carefully.	differences from their
	- 44	- 44 41	own ideas.
How to study through	Be able to have a	Be able to listen to	Be able to notice the
discussion	discussion with	other children's	differences between
	support of the teacher.	remarks carefully and	other children's
		ask questions when	remarks and their own
		something is unclear.	ideas and summarize
			the result of
			discussion.

[→] In addition to the items of the above table, it is also necessary to establish a learning system for each grade.

[Example] Ideal state of children in indirect instruction by grade



→ It is important for the teacher to ask individual children about the problems they have about indirect instruction, give them appropriate advice and recognize their progress.

(5) Individually-targeted teaching in indirect instruction

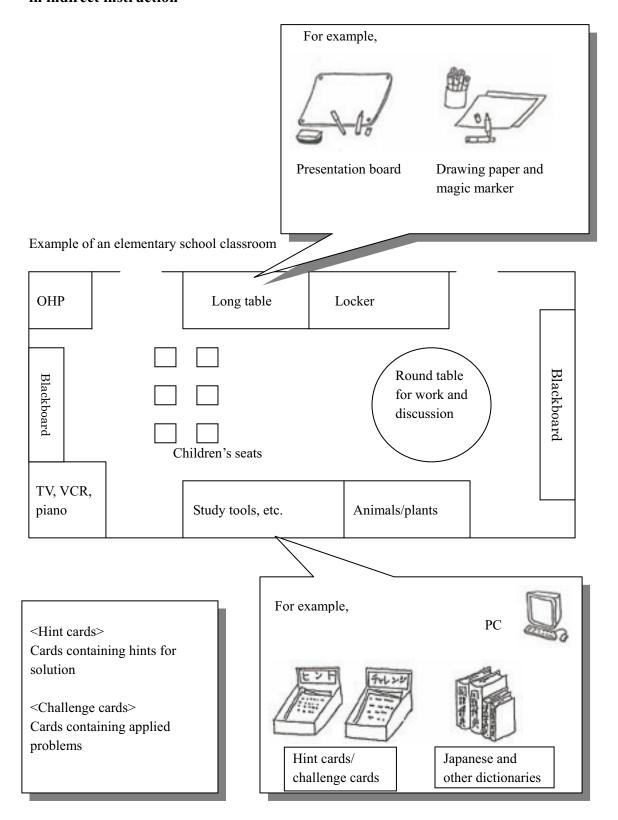
To allow children to select a solution in indirect instruction, it is necessary to prepare several different kinds of handouts and take other measures to promote individually-targeted teaching.

▼ Individually-targeted teaching in indirect instruction

Step	Learning activities of	Teacher's	Learning activities of	Step
	lower grade	movements	upper grade	
Recognizing problems	Problem		Supplementary problems	Familiarization & application
	 Confirm the procedure and method of solution. 		Similar problems Applied problems	
7.1	solution.		Applied problems	
Endeavoring to solve the problems	By looking at hint cards By referring to handouts Take notes in their own ways.	teaching 1 Pred for ir 2 Preps based 3 Enco	ict learning activities andividual children. are handouts, etc. d on the prediction. burage individual laren to choose suitable	Recognizing problems

- → Attention must be paid to the following matters when adopting individually-targeted teaching in individual instruction:
- Encourage individual children to choose suitable methods of learning by confirming the processes and methods of solution and ways of practice they use in direct instruction.
- Establish a good learning environment in the classroom so that individual children can study in their own ways.

[Example] Preparations in the classroom to support individually-targeted teaching in indirect instruction



→ It is important to fully explain how to use the above materials so that the children can use them freely.

(6) Evolutionary ideas for instruction by grade

In the case of instruction by grade, several hours may be spent for grasping the learning conditions of both grades or combining the learning processes with focus on one grade.

▼ When spending several hours for grasping the learning conditions of both grades

	Lower grade	Teacher's r	novements	Upper grade
	(1) Recognizing problems			(4) Familiarization & application
learning condit	vice can be given to			(1) Recognizing problems
	(2) Endeavoring to solve the problems			(2) Endeavoring to solve the problems
	(3) Thoroughly mastered			
	(4) Familiarization & application			(3) Thoroughly mastered

▼ When focus is placed on the lower grade

Lower grade	Teacher's movements	Upper grade	
(1) Recognizing problems		grade is possible g to the stage of	
(2) Endeavoring to solve the problems (3) Thoroughly mastered		(4) Familiarization & application	
(4) Familiarization & application		(1) Recognizing problems	
		(2) Endeavoring to solve the problems	
		(3) Thoroughly mastered	

[Example] [Japanese "Let's read a story" (1st grade "Umi-e-no Nagai Tabi," 2nd grade "Kasakojijo")

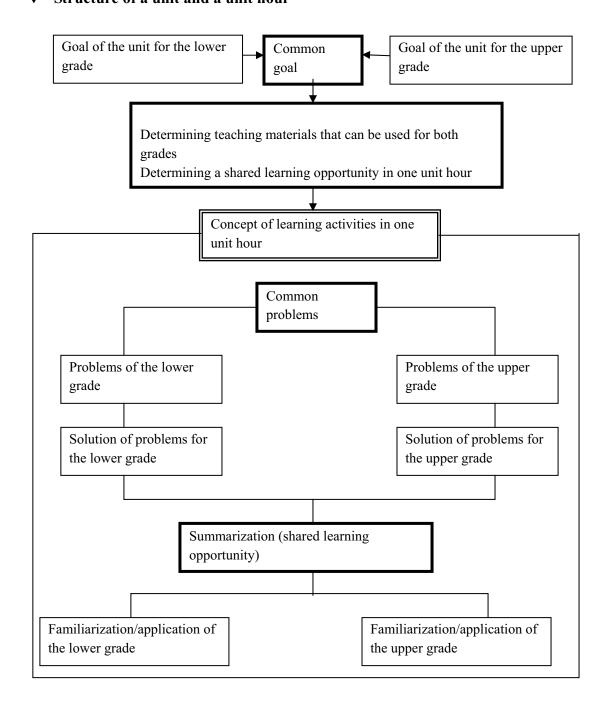
Stage	Children's learning activities	Teacher's approach	Teach mover	Teacher's approach		Children's learning activities	Stage
Recognizing problems	Read out the scene studied in the previous lesson.	☐ Confirm what was learned in the previous lesson. ☐ Confirm the task of this lesson. e words of mothe	er	□Conf prob and solut	lems tions. Imagine old mar	the feelings of the n who could not umbrellas	0
Endeavoring to solve the problems Thoroug	Read out the scene studied in this lesson. Pay attention to the sentence, "Mother bear was cheering up the brothers" Practice recitation in the gym with attention to the words of Mother bear, "Don't be slow, make sure to follow me." Present recitation.	☐ Instruct the children to read out the scene studied in this lesson. ☐ Instruct the children to focus on the task of the lesson and pay attention to certain words. ☐ Check the conditions of practice in the gym and give advice. ☐ Evaluate recitation of each child.		chill fille the wor	offirm the dren ed out of tation etice in gym.	Read out the scene studied in this lesson individually. Write the words of the old man in balloons on the work-sheet and think about how to read it (quietly and cheerfully, calling out, etc.). Practice recitation in the gym. Pay attention to the words of the old man.	Endeavoring to solve the problems
Thoroughly mastered							

[→] It is possible to combine learning processes flexibly depending on the conditions of children and contents of learning in instruction by grade.

5. Instruction of similar contents

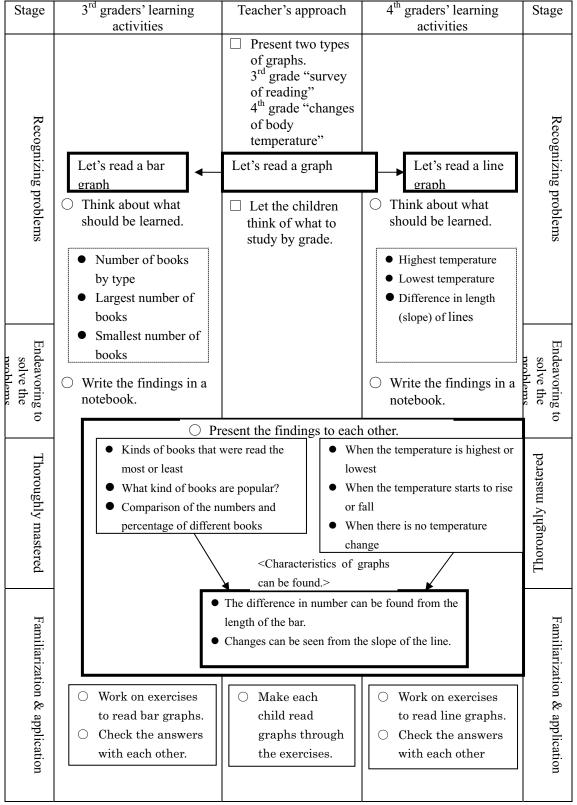
Instruction of similar contents is a type of instruction in which similar contents are taught to both grades. The effects of this type of instruction include the creation of a sense of unity in a multi-grade class and enhancement of the willingness to learn by sharing an opportunity of learning.

▼ Structure of a unit and a unit hour



[Example] Learning activities in one unit hour

[Mathematics "How to read a graph" (3rd grade "tables and bar graphs," 4th grade "line graphs")]



[→] Besides the above example, there area a variety of possible combinations, for example, "addition" of the 1st grade and "addition" of the 2nd grade and "triangles" of the 3rd grade and "quadrangles" of the 4th grade.

6. Joint learning

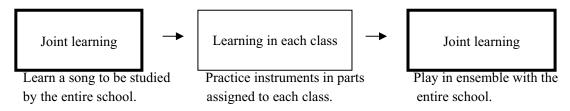
Joint learning is a method for children of two or more classes to learn together beyond the boundary of classes (e.g., physical education and music classes for the entire school).

Joint learning may be adopted when implementing learning activities that require a group of a certain size, for example, choruses and ensembles of instruments in music and ball games in physical education.

▼ Positioning of joint learning

Focus should be mainly on learning of each class, rather than considering the entire learning of the unit as joint learning.

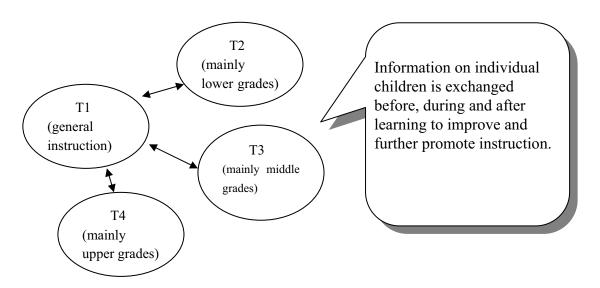
* A plan utilizing the joint learning method in music class



▼ Collaborative instruction by teachers

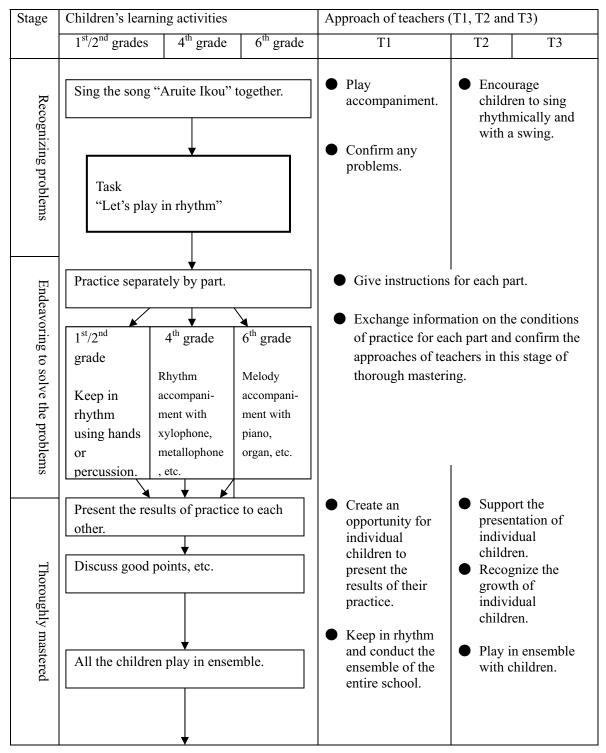
With the mutual understanding of teachers, the role of each teacher should be clarified to promote joint learning.

*An example of sharing of roles in joint learning



Example Learning activities in one unit hour (music for the entire school)

[Music 1st, 2nd, 4th and 6th grades "In the rhythm"]

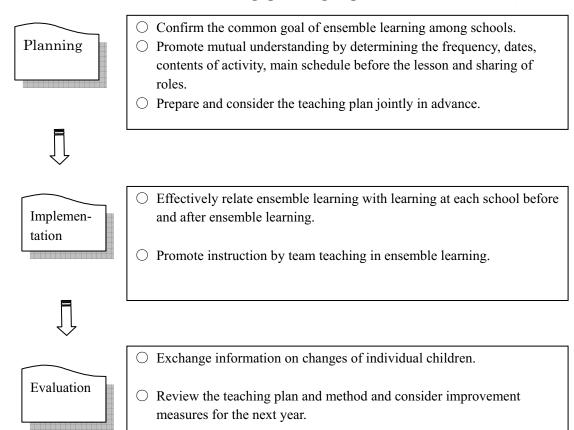


In joint learning, it is important to consider the developmental stage of each grade. It is also necessary to avoid placing excessive burden on upper graders or making lower graders follow directions of the children of middle and higher grades all the time.

7. Ensemble learning

Ensemble learning is a method for teachers of different grades in giving instruction through mutual cooperation conducted by gathering children of the same grade from two or more neighboring schools or all the students of those schools.

▼ Procedure of ensemble learning (planning/implementation/evaluation)

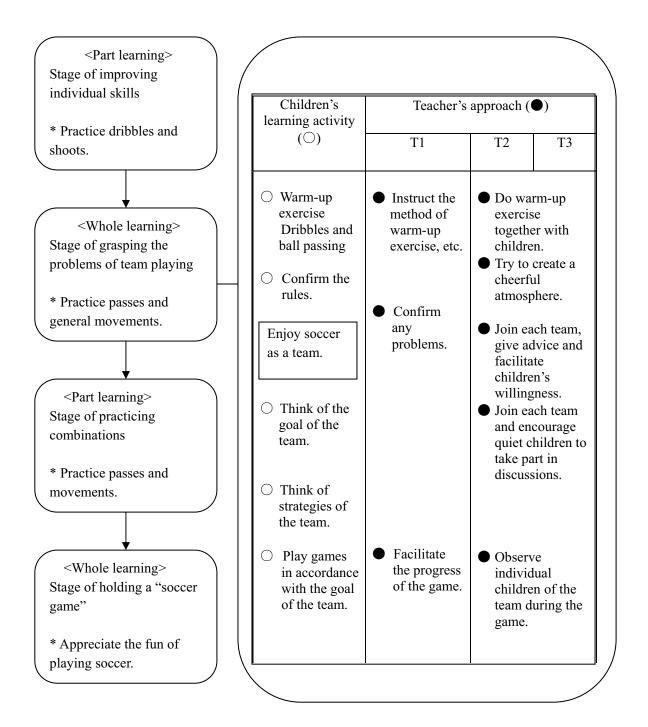


▼ Whole and part learning

It is important to implement appropriate learning activities (part learning) at each school before and after ensemble learning, to achieve the effect of learning activities jointly by children of two or more schools (whole learning). It is thus necessary to position whole and part learning in the annual teaching plan of each school and clarify the relationship between them.

Example Flow of ensemble learning

[Physical education 5th/6th grades "soccer"]



Ensemble learning is considered significant since it can provide an opportunity for children to experience learning in a larger group and for teachers to have practical training in instruction.

8. Joint learning with other schools using an information communication network

Some schools with multi-grade classes are promoting learning jointly with other schools through information networks, with the purpose of further improving children's expressiveness and communication ability.

For example, exchange of e-mails, browsing of websites, lessons using TV screens (TV conference system) and other means can be used.

▼ Planning joint learning with other schools using an information communication network

From the conditions of students, analyze the abilities that are unlikely to be developed only by learning activities in their own school.



Make plans for the selection of a partner school with joint learning activities and methods based on the conditions of school, region and facilities.



[An example of a selection of learning methods using an information communication network]

Exchange of emails

- Inform the plans and conditions of learning.
- Ask questions to the partner school and answer their questions.

Browsing of websites

- Inform the summary and results of learning.
- Know the summary and results of learning of the partner school(s).

TV conference system

 Listen to each other's presentations and have discussions in real time.

Example Planning of joint learning

[Hour for comprehensive studies 3rd/4th grades Subject "dragonfly"]

[Status of students]

- O Two student-class with one 3rd and one 4th grader
- O Lacks an attitude of improvement with each other.
- O Both of them are interested in animals, plants and insects.

Plan joint learning with a school of the same scale based on the status of the children.

[Aim of joint learning with another school]

- ♦ Enhance the willingness to learn by telling their ideas to others and listening to the ideas of the others.
- ♦ Foster the ability to collect and transmit information voluntarily.

Select a school in a remote area



[Subject]

"Dragonfly" was chosen as the subject in consideration of the interests of both students and the difference in species by region.

[Planning of learning activities]

- ① Collect dragonflies and study their ecology at each school.
- ② Determine the items of joint research through emails to each other.
- ③ Each school conducts research in accordance with the above items.
- 4 Summarize the research results on a website and publish it.
- ⑤ Browse the website of the other school and send questions and answers by email.
- 6 Inform the summary of learning to each other by email.

Plan exchanges only by email or on websites.

- → When using an information communication network, it is important to clarify the kind of ability that should be fostered and verify the achievement of such ability by children, rather than seeing the activity itself as a goal.
 - O It is important to encourage learning with places and opportunities for direct contact with people, rather than focusing only on learning using computers.

9. Hours for Integrated studies

During the hours for comprehensive studies in a multi-grade class, it is important to promote learning activities by taking advantage of the multi-grade class depending on the developmental stage of children.

▼ Concept of the hours for comprehensive studies in multi-grade classes

Aim of the hours for comprehensive studies

- (1) Foster children's abilities to find the problems, learn, think, make voluntary judgments and solve problems by themselves.
- (2) Foster children's abilities to acquire skills to learn and think, to engage in solution of problems and exploration activities voluntarily and creatively and to think about their own lifestyles.



Children can display their ability to learn voluntarily, which they acquired in indirect instruction.

Children can make use of the attitude of learning from each other, fostered through involvement with children of different grades.

▼ Relationship between life and environmental studies and the hours for comprehensive studies

- ① The goal of life and environmental studies and the aims of the hours for comprehensive studies are fundamentally different.
- ② In life and environmental studies, it is essential to cover 8 items of learning.
- ③ Developmental stages differ between 1st/2nd graders and 3rd graders.

It is therefore necessary to understand that learning activities would not be exactly the same even if the subject is the same.

Example Hours for comprehensive studies in a multi-grade class [3rd/4th grades "Let's introduce the good points of the local community"]

<Goals of the unit>

Viewpoint	3 rd grade	4 th grade
Ability to set a task	Be able to choose a task.	Be able to set their own tasks.
Method of learning	Be able to study in accordance with	Be able to study willingly in
	the task.	accordance with the plan.
Communication	Be able to have the will to	Be able to think of ways to
ability	communicate in an easy-to-understand	communicate in an
	manner.	easy-to-understand manner.
Personal lifestyle	Be able to reexamine themselves.	Be able to think of what they can do.

<Flow of learning activities in the unit>

- ① Determine the task based on experience.
 - Decide what to study by exploring the local region.
 - Decide the subject of learning.
 - 3rd grade choose one from "insects of the region," "plants of the region" and "birds of the region"
 - 4th grade decide the subject based on the large theme "rivers of the region"

Encourage children to make their own study plans and proceed with their learning in accordance with them.

- ② Let individual children work on solutions for problems.
 - Plan research.
 - Conduct interviews with local residents, nature observation, experiments, etc. repeatedly.
 - Hold an interim presentation in the class and discuss the ideas to convey the advantages of the region based on the research results.
 - Incorporate new ideas in summary of the research results.
- ③ Summarize the solution of problems and review the contents of learning.
 - Decide who they want to tell the research results: "to local people," "to the family," "to friends," "to students of other schools"
 - Tell the results to others and listen to their opinions.
 - Think about their own lifestyles.
 - Put the record of learning in a file.

Create an opportunity for 4th graders to give advice to 3rd graders or for 3rd graders to learn from presentations of 4th graders.

Main References

Ш	Education Research Institute), "Theory and Practice of Multigrade Education," August 1978.
	Akira TAKAYANAGI (former director of the Laboratory of Rural Education, Hokkaido Education Research Institute), "Community-Based Rural Education," June 1980.
	Research Center for Rural Education, Hokkaido University of Education, "Future of Rural Education and the Role of Hokkaido University of Education," March 2001.
	Bulletin of the All Hokkaido Conferences on Rural and Multigrade Education from 1984 to 2000 (sponsored by the Hokkaido Federation for Research on Rural and Multigrade Education and others)
	National Federation for Research on Rural Education, "Education to Lead the Way to the 21st Century Series I – Invention and Improvement of Teaching Methods," October 1998.
	National Federation for Research on Rural Education, "Education to Lead the Way to the 21st Century Series II – Efficient Teaching and School and Class Management," July 1999.
	National Federation for Research on Rural Education, "Education to Lead the Way to the 21^{st} Century Series III – Q & A about Rural, Multigrade and Small-Scale Schools," September 2000.
	Ministry of Education,
	structional Materials for Combined Classes in Elementary Schools – Japanese," September 1985.
"In	structional Materials for Combined Classes in Elementary Schools – Social Studies," September 35.
"In	structional Materials for Combined Classes in Elementary Schools – Mathematics," October 95.
"In	structional Materials for Combined Classes in Elementary Schools – Science," December 1994.
	Department of Lifelong Learning, Hokkaido Office of Education, "2001 Guidelines for School Education – for new teachers," April 2001.
□ Cla	Hokkaido Society for Research on Educational Materials, "Lesson Processes in Combined asses to Foster Self-Educating Ability," May 1986.

Sponsor/affiliate organization

Hokkaido Federation for Research on Rural and Multigrade Education

Members of the editorial board

Hokkaido Education Research Institute

Yasuhiro ERA (Director, Department of Education Development)

Yoichi NAKAGAWA (Deputy Director, Department of Support for Educational Practice)

Kazushi KAMIMORI (Training Supervisor, Department of Education Development)

Atsushi NAGASAWA (Training Supervisor, Department of Education Development)

Hokkaido University of Education

Fumie MURATA (Director, Research Center for Rural Education, Hokkaido University of Education)

Joint Project of Hokkaido University of Education and Hokkaido Government Board of Education

How to Instruct for Multi-Grade Classes

- For freshman or inexperienced teachers

Edited and published by:

Hokkaido Education Research Institute

Isao ENDO, Representative

42, Higashi-machi, Bunkyodai, Ebetsu, Hokkaido 069-0834 Japan

Tel: 011-386-4511

Hokkaido University of Education

Noriaki MURAKAMI, Representative

1-3, 3-chome, Ainosato 5-jo, Kita-ku, Sapporo, Hokkaido 002-8501 Japan

Tel: 011-778-0206

Published in:

September 2001 (first impression of the first edition)

March 2002 (second impression of the first edition)

August 2005 (third impression of the first edition)

Printed by:

Social Welfare Corporation Hokkaido Rehabily

507-1, Nishinosato, Kitahiroshima, Hokkaido 061-1102 Japan

Tel: 011-375-2116

英語版

「複式学級における学習指導の在り方~初めて複式学級を担任する先生へ~」

本冊子は、開発途上国等に対する国際協力のために必要な資料として、 北海道教育大学国際交流・協力センターが翻訳しました。

平成18年12月 北海道教育大学へき地教育研究センター