# School Diagnosis Chart

## **Group-oriented activities:**

- 1 Classroom activities are going well.
- 2 My feelings are understood in the classroom.
- 3 The class activities are interesting.

### Relationship with friends

- 4 My friend may worry when I am absent from school without notice.
- 5 My friend admits my goodness.
- 6 My friend understands me when I make a mistake.

### Relationship with teachers

- 7 Teachers understand me when I make a mistake.
- 8 My teacher likes me.
- 9 My teacher accepts me warmly.

#### Help-seeking behaviors related to learning subject matter

- 10 I ask my friend when I could not understand something.
- 11 I ask my family when I could not understand something.
- 12 I ask teachers when I could not understand something.

#### Social class

- After returning home from school and on my days off, I often play outside.
- 14 I talk with my family about what I have learned at school.
- 15 I read scientific articles and watch science TV programs.
- 16 I read newspapers and watch the TV news.
- 17 I use books or dictionaries when I study.

#### Attitude (Motivation) toward Math

- 18 Math is one of my favorite subjects.
- 19 I can get good marks in math.
- 20 I can understand math classes.
- 21 Learning math is interesting.
- I would like to tackle harder math problems.
- 23 I want to continue learning math even after becoming an adult.

## Learning styles (Meta-cognitive ability): Math

- When math class is difficult, I try to figure out the reason.
- 25 I know how to overcome my weak sides in math.
- I can set up learning goal in math.

### Learning Strategy (Memory-Oriented): Math

- 35 In math classes, Rote learning is important.
- 36 Repetition is important part in math learning.
- I try to copy down everything that was written on the blackboard by teacher.

# <u>Learning Strategy (Elaboration-Oriented): Math</u>

- I try to organize my notebook to understand meaningfully what I learned in math classes.
- When I learn a new idea in math, I try to make concrete image of it.
- I try to understand topics not only by memorizing but also by inferring the meaning.

### Learning Strategy (Organizaation-Oriented): Math

- When I organize my math notes, I try to integrate the material.
- I try to create a new conceptual category in which different topics could be grouped.
- I try to connect what I learn in math classes to daily life.

#### Attitude (Motivation) toward Science

- 44 Science is one of my favorite subjects.
- 45 I can get a good marks in science.
- 46 I can understand science classes.
- 47 Learning science is interesting.
- 48 I would like to tackle harder science problems.
- I want to continue learning science even after becoming an adult.

#### Learning styles (Meta-cognitive ability): Science

- 50 When science class is difficult, I try to figure out the reason.
- I know how to overcome my weak points in science.
- I can set up a learning goal in science.

#### Learning Strategy (Memory-Oriented): Science

- In science classes, Rote learning is important.
- Repetition is an important part in science learning.
- I try to copy down everything that was written on the blackboard by teacher.

# Learning Strategy (Elaboration-Oriented): Science

- I try to organize my notebook to understand meaningfully what I learned in science classes.
- When I learn new idea in science, I try to make concrete image of that.
- I try to understand topics not only by memorizing but also by inferring the meaning.

# Learning Strategy (Organizaation-Oriented): Science

- When I organize my science notes, I try to integrate the material.
- I try to create a new conceptual category in which different topics could be grouped.
- I try to connect what I learn in science classes to daily life.

Table. Standardized Cronbach's alpha

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Group oriented	0.788
Friends	0.927
teachers	0.872
Help-seeking	0.495
Social class	0.664
Motivation (Math)	0.901
Motivation (SCI)	0.904
Meta-cognitive (Math)	0.827
Meta-cognitive (SCI)	0.812
MOLS (Math)	0.510
MOLS (SCI)	0.559
EOLS (Math)	0.793
EOLS (SCI)	0.759
OOLS (Math)	0.682
OOLS (SCI)	0.735

The questionnaire consisted of study-subject

<sup>-</sup> independent scales (5) and subject-dependent scales (Math & Science)(5)