

## Supplemental Materials Elementary School attached to Yamanashi University

### Whole School Research Theme

### Devising lessons in which students connect their questions and experience understanding

There are 4 dispositions·abilities that are necessary to realize lessons in which students feel the values of learning.

1. Dispositions·abilities that are skill/procedural.
2. Dispositions·abilities that are cognitive.
3. Dispositions·abilities that are affective.
4. Dispositions·abilities that are social.

The mathematics group at the school also has its own goal of devising lessons in which students create their own mathematics. Connecting the school research theme with the mathematics group's goal, they developed the following diagram that illustrates how the 4 is positions·abilities fit into the problem solving based mathematics lesson format.

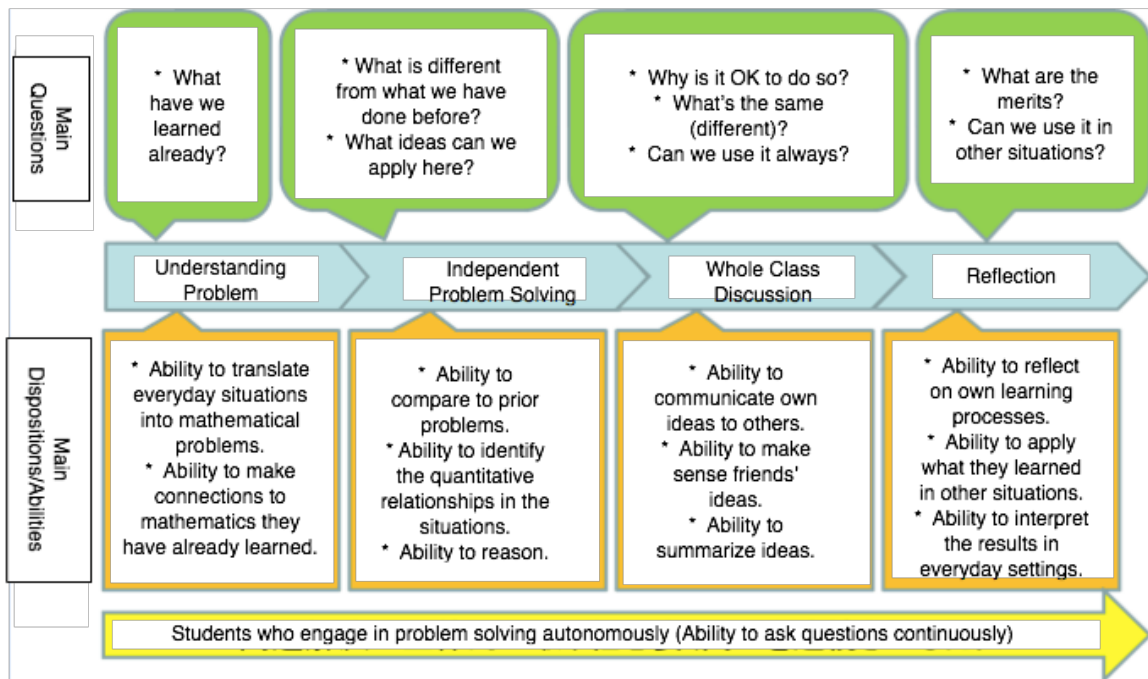


Figure 3 Learning process in "lessons in which students feel the values of learning"