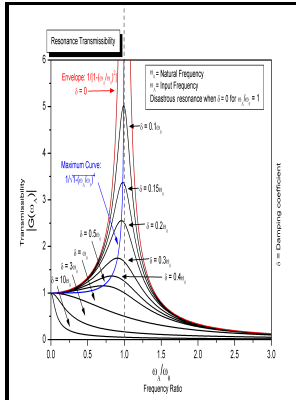


# Mathematics without numbers - towards a modal-structural interpretation

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## Using Manipulatives

In this connection, applied mathematics can provide a crucial epistemological link, much as it has been thought to provide under familiar platonist treatments.

## An introduction to vectors

Thus, the two situations need by no means be equivalent.

## Mathematics Without Numbers: Towards a Modal

Timing is Everything While the figures above are the results of mathematical estimations, researchers have actually studied social distancing from a variety of angles. The gap appears to be widening for African American students, particularly among students of the best-educated parents, which suggests that the problem is not one solely of poverty and disadvantage.

## Using Manipulatives

They bring important mathematical concepts and skills with them to school as well as misconceptions that must be taken into account in planning instruction. It is worth pointing out, however, that, to some extent, the structuralist can respect the logicist analyses. Over the same period, African American and Hispanic students recorded increases at grades 4 and 12, but not at grade 8.

## An introduction to vectors

Another example is a multiple-choice problem in which students were asked to estimate The choices were 1, 2, 19, and 21. And, in applied modal mathematics, we see that the idea does have some use: as a very general and schematic device for helping us say what we are doing when we

describe the world mathematically. Students who disagree about a mathematical answer need not rely on checking with the teacher, collecting opinions from their classmates, or gathering data from outside the classroom.

### **Using Manipulatives**

Both these constructive principles ought to enter very early in the foundations of mathematics, even if they are to be transcended. As time goes on, we lose material, but our rate of decay slows down.

### **Toward a modal**

Concrete models can help students represent numbers and develop number sense; they can also help bring meaning to written symbols and can be useful in building place-value concepts. Observing people's estimation strategies, Dowker suggests, may provide information not only about estimation itself, but also about people's more general understanding of mathematical concepts and relationships. It is already a step toward formalizing the more purely English version, 1.

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