Theory of Multiple Intelligences for Learning

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Howard Gardner's Theory of Multiple Intelligences Description

❏ People are not born with all of the intelligence they will ever obtain.
❏ The traditional notion of intelligence is based on I.Q. tests, which he believes are far too limited.
❏ The traditional notion of one single type of intelligence, known as the general intelligence, focuses on cognitive abilities.
❏ There are 8 types of intelligences: Linguistic, Logical/Mathematical, Spatial, Bodily-Kinesthetic, Musical, Interpersonal, Intrapersonal, and Naturalist.

Our Goal

- ❏ The main applications of our project will be understanding the theory and comprehending how this theory can help recognize one's own strengths.
- ❏ We will focus on logical math, linguistic, naturalist, spatial and interpersonal intelligence
  - ❏ We are interested in seeing how these areas of intelligence can be related to class activities relating to different areas of mathematics.

Our Intelligences Explained

Logical mathematical intelligences

❏ Uses reason to analyze and solve problems.
   ❏ Understanding mathematical concepts
   ❏ Able to test hypotheses
   ❏ Good at debating

Linguistic intelligence

❏ Understand words while reading, speaking, or writing.
   ❏ Able to learn a new language or vocabulary words
   ❏ Good at reading and writing stories/essays.

Our Intelligences Explained

Naturalist intelligence

❑ In tune with nature, exploring the environment and other species.
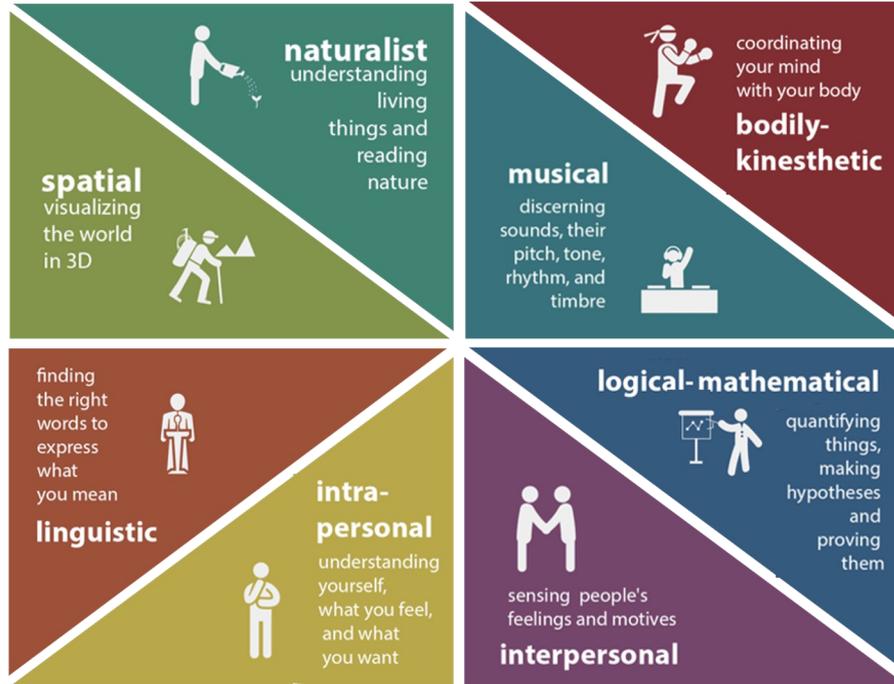 ❑ Enjoy outdoor activities.
  ❑ Finding patterns and relationships

Spatial intelligence

❑ Aware of the environment around them
  ❑ Good with puzzles
  ❑ Good hand-eye coordination.

Interpersonal intelligence

❑ Work well with other individuals
  ❑ Able to make relationships with their peers

HOWARD GARDNER'S
THEORY OF MULTIPLE INTELLIGENCES

Example 1: Linguistic Intelligence Math Activity

If someone has linguistic intelligence, they can use this to understand a mathematical topic by writing a story.

There once was a chef who liked to make new recipes. Her newest recipe was for 12 chocolate chip cookies. One of her friends was having a birthday party and wanted her to make 48 cookies.

Similar to a word problem, the story can continue with the ingredients and how to find how much of each ingredient she will need. Using the students' ability of reading and writing, they can have fun with creating and solving math problems.

Example 2: Naturalist Intelligence Math Activity

If someone has naturalist intelligence, they can use this to understand a mathematical topic by making compare and contrast charts or by doing Venn Diagrams.

Example:

Measure the length and width of 5 different leaves of the same plant. Complete the Chart and make a Venn Diagram. (measure in cm)
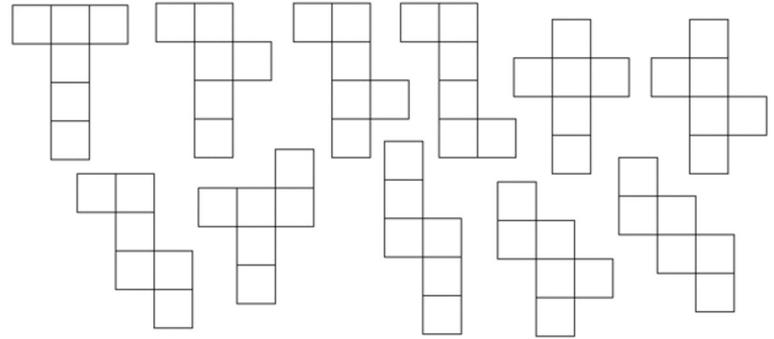
Leaves (Rubber Tree)	Length	Width
1		
2		
3		
4		
5		

Example 3: Spatial Intelligence Math Activity

If someone has spatial intelligence, they can use this to understand a mathematical topic by rotation, symmetry, and imagining things in third dimensions.

Example:

Given a collection of various nets can you pick out the ones that will fold to give you a cube.

Example 4: Interpersonal Intelligence Math Activity

If someone has interpersonal intelligence, they can use this to understand a mathematical topic by being social genius and organizing.

Example:

Multiplayer Fraction Board Game. The student will practice describing fractions out loud in order to roll the die and move ahead.
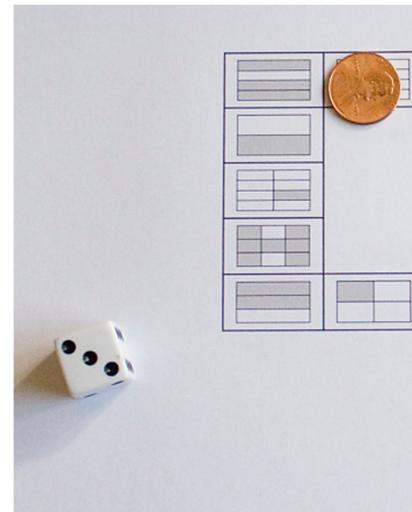
Conclusions

After researching the theory of multiple intelligences, we can see that we can use a students preferred way of learning to help them succeed in all subjects and that relationships between all of the intelligences can be found. For mathematics in particular, we were able to establish relationships with other types of intelligences so that students are able to learn mathematics effectively and in a way that is beneficial to them.

Bibliography

https://www.waterford.org/education/multiple-intelligences-activities/

Gardners-theory-of-multiple-intelligences-2795161

Naturalist-intelligence-8098

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