# Howard Gardner's Theory of Multiple Intelligences

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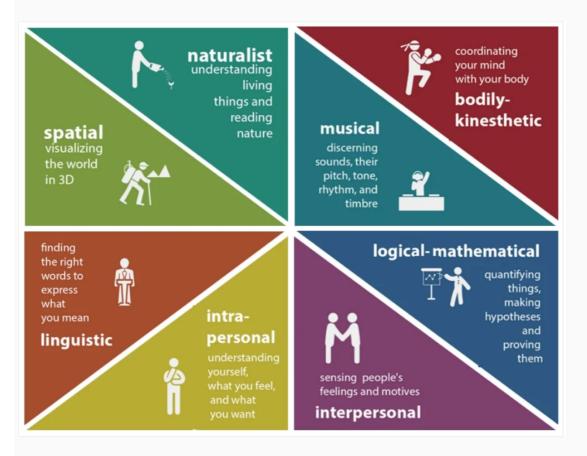
Source: https://www.simplypsychology.org/multiple-intelligences.html

Howard Gardner first proposed the theory of multiple intelligences in his 1983 book "Frames of Mind", where he broadens the definition of intelligence and outlines several distinct types of intellectual competencies.

Gardner developed a series of eight inclusion criteria while evaluating each "candidate" intelligence that was based on a variety of scientific disciplines.

He writes that we may all have these intelligences, but our profile of these intelligences may differ individually based on genetics or experience.

Gardner defines intelligence as a "biopsychological potential to process information that can be activated in a cultural setting to solve problems or create products that are of value in a culture" (Gardner, 2000, p.28).



Howard Gardner's Theory of Multiple Intelligences posits that individuals possess various distinct types of intelligences, rather than a single general intelligence. These types encompass areas like linguistic, logical-mathematical, musical, spatial, bodily-kinesthetic, interpersonal, intrapersonal, and naturalistic intelligences, emphasizing a broader understanding of human capability.

# What is Multiple Intelligences Theory?

- Howard Gardner's theory of multiple intelligences proposes that people are not born with all of the intelligence they will ever have.
- This theory challenged the traditional notion that there is one single type of intelligence, sometimes known as "g" for general intelligence, that only focuses on cognitive abilities.
- To broaden this notion of intelligence, Gardner introduced eight different types of intelligences consisting of: Linguistic, Logical/Mathematical, Spatial, Bodily-Kinesthetic, Musical, Interpersonal, Intrapersonal, and Naturalist.
- Gardner notes that the linguistic and logical-mathematical modalities are most typed valued in school and society.
- Gardner also suggests that there may other "candidate" intelligences—such as spiritual intelligence, existential intelligence, and moral intelligence—but does not believe these meet his original inclusion criteria. (Gardner, 2011).

#### Linguistic Intelligence (Word Smart)

Linguistic Intelligence is a part of Howard Gardner's multiple intelligence theory that deals with sensitivity to the spoken and written language, ability to learn languages, and capacity to use language to accomplish certain goals.

People with linguistic intelligence, such as William Shakespeare and Oprah Winfrey, have an ability to analyze information and create products involving oral and written language such as speeches, books, and memos.

**Potential Career Choices** 

Careers you could dominate with your linguistic intelligence:

Lawyer

Speaker / Host

Author

Journalist

Curator

# Logical-Mathematical Intelligence (Number/Reasoning Smart)

Logical-mathematical intelligence refers to the capacity to analyze problems logically, carry out mathematical operations, and investigate issues scientifically.

People with logical-mathematical intelligence, such as Albert Einstein and Bill Gates, have an ability to develop equations and proofs, make calculations, and solve abstract problems.

**Potential Career Choices** 

Careers you could dominate with your logical-mathematical intelligence:

Mathematician Accountant Statistician Scientist

Computer Analyst

# Spatial Intelligence (Picture Smart)

Spatial intelligence features the potential to recognize and manipulate the patterns of wide space (those used, for instance, by navigators and pilots) as well as the patterns of more confined areas, such as those of importance to sculptors, surgeons, chess players, graphic artists, or architects.

People with spatial intelligence, such as Frank Lloyd Wright and Amelia Earhart, have an ability to recognize and manipulate large-scale and fine-grained spatial images.

Potential Career Choices

Careers you could dominate with your spatial intelligence:

Pilot

Surgeon

Architect

**Graphic Artist** 

Interior Decorator

# **Bodily-Kinesthetic Intelligence (Body Smart)**

Bodily-kinesthetic intelligence is the potential of using one's whole body or parts of the body (like the hand or the mouth) to solve problems or to fashion products.

People with bodily-kinesthetic intelligence, such as Michael Jordan and Simone Biles, have an ability to use one's own body to create products, perform skills, or solve problems through mind-body union.

Potential Career Choices

Careers you could dominate with your bodily-kinesthetic intelligence:

Dancer Athlete Surgeon Mechanic Carpenter Physical Therapist

#### **Musical Intelligence (Music Smart)**

Musical intelligence refers to the skill in the performance, composition, and appreciation of musical patterns.

People with musical intelligence, such as Beethoven and Ed Sheeran, have an ability to recognize and create musical pitch, rhythm, timbre, and tone.

Potential Career Choices

Careers you could dominate with your musical intelligence:

Singer

Composer

DJ

Musician

## Interpersonal Intelligence (People Smart)

Interpersonal intelligence is the capacity to understand the intentions, motivations, and desires of other people and consequently to work effectively with others.

People with interpersonal intelligence, such as Mahatma Gandhi and Mother Teresa, have an ability to recognize and understand other people's moods, desires, motivations, and intentions.

#### Potential Career Choices

Careers you could dominate with your interpersonal intelligence:

Teacher

Psychologist

Manager

Salespeople

**Public Relations** 

# Intrapersonal Intelligence (Self-Smart)

Intrapersonal intelligence is the capacity to understand oneself, to have an effective working model of oneself-including own's desires, fears, and capacities—and to use such information effectively in regulating one's own life.

People with intrapersonal intelligence, such as Aristotle and Maya Angelou, have an ability to recognize and understand his or her own moods, desires, motivations, and intentions.

This type of intelligence can help a person to understand which life goals are important and how to achieve them.

Potential Career Choices

Careers you could dominate with your intrapersonal intelligence:

Therapist

Psychologist

Counselor

Entrepreneur

Clergy

# Naturalist Intelligence (Nature Smart)

Naturalistic intelligence involves expertise in the recognition and classification of the numerous species—the flora and fauna—of his or her environment.

People with naturalistic intelligence, such as Charles Darwin and Jane Goddall, have an ability to identify and distinguish among different types of plants, animals, and weather formations that are found in the natural world.

#### Potential Career Choices

Careers you could dominate with your naturalist intelligence:

Botanist Biologist Astronomer Meteorologist Geologist

# **Critical Evaluation**

Most resistance to multiple intelligences theory has come from cognitive psychologists and psychometricians. Cognitive psychologists such as Waterhouse (2006) claimed that there is no empirical evidence to the validity of the theory of multiple intelligences.

Psychometricians, or psychologists involved in testing, argue that intelligence tests support the concept for a single general intelligence, "g", rather than the eight distinct competencies (Gottfredson, 2004). Other researches argue these Gardner's intelligences come second or third to the "g" factor (Visser, Ashton, & Vernon, 2006).

Some responses to this criticism include that the Multiple Intelligences theory doesn't dispute the existence of the "g" factor; it proposes that it is equal along with the other intelligences. Many critics overlook the inclusion criteria set forth by Gardner.

These criteria are strongly supported by empirical evidence in psychology, biology, neuroscience, among others. Gardner admits that traditional psychologists were valid is criticizing the lack of operational definitions for the intelligences, that is, to figure out how to measure and test the various competencies (Davis et al., 2011).

Gardner was surprised to find that Multiple Intelligences theory has been used most widely in educational contexts. He developed this theory to challenge academic psychologists, and therefore did not present many educational suggestions. For this reason, teachers and educators were able to take the theory and apply it as they saw fit. As it gained popularity in this field, Gardner has maintained that practitioners should determine the theory's best use in classrooms. He has often declined opportunities to aid in curriculum development that uses multiple intelligences theory, opting to only provide feedback at most (Gardner, 2011).

Most of the criticism has come from those removed from the classroom, such as journalists and academics. Educators are not typically tied to the same standard of evidence and are less concerned with abstract inconsistencies, which has given them the freedom to apply it with their students and let the results speak for itself (Armstrong, 2019).

# **Implications for Learning**

The most important educational implications from the theory of multiple intelligences can be summed up through individuation and pluralization. Individuation posits that because each person differs from other another there is no logical reason to teach and assess students identically.

Individualized education has typically been reserved for the wealthy and others who could afford to hire tutors to address individual students' needs.

Technology has now made it possible for more people to access a variety of teachings and assessments depending on their needs. Pluralization, the idea that topics and skills should be taught in more than one way, activates individual's multiple intelligences.

Presenting a variety of activities and approaches to learning helps reach all students and encourages them to be able to think about the subjects from various perspectives, deepening their knowledge of that topic (Gardner, 2011b).

A common misconception about the theory of multiple intelligences is that it is synonymous with learning styles. Gardner states that learning styles refer to the way an individual is most comfortable approaching a range of tasks and materials.

Multiple intelligences theory states that everyone has all eight intelligences at varying degrees of proficiency and an individual's learning style is unrelated to the areas in which they are the most intelligent.

For example, someone with linguistic intelligence may not necessarily learn best through writing and reading. Classifying students by their learning styles or intelligences alone may limit their potential for learning.

Research shows that students are more engaged and learn best when they are given various ways to demonstrate their knowledge and skills, which also helps teachers more accurately assess student learning (Darling-Hammond, 2010).

## **Frequently Asked Questions**

# How can understanding the theory of multiple intelligences contribute to self-awareness and personal growth?

Understanding the theory of multiple intelligences can contribute to self-awareness and personal growth by providing a framework for recognizing and valuing different strengths and abilities.

By identifying their own unique mix of intelligences, individuals can gain a greater understanding of their own strengths and limitations and develop a more well-rounded sense of self.

Additionally, recognizing and valuing the diverse strengths and abilities of others can promote empathy, respect, and cooperation in personal and professional relationships.

# Why is multiple intelligence theory important?

Understanding multiple intelligences is important because it helps individuals recognize that intelligence is not just about academic achievement or IQ scores, but also includes a range of different abilities and strengths.

By identifying their own unique mix of intelligences, individuals can develop a greater sense of self-awareness and self-esteem, as well as pursue career paths that align with their strengths and interests.

Additionally, understanding multiple intelligences can promote more inclusive and personalized approaches to education and learning that recognize and value the diverse strengths and abilities of all students.

# Are certain types of intelligence more valued or prioritized in society than others?

Yes, certain types of intelligence, such as linguistic and logical-mathematical intelligence, are often prioritized in traditional education and assessment methods.

However, the theory of multiple intelligences challenges this narrow definition of intelligence and recognizes the value of a diverse range of strengths and abilities.

By promoting a more inclusive and personalized approach to education and learning, the theory of multiple intelligences can help individuals recognize and develop their unique mix of intelligences, regardless of whether they align with traditional societal expectations.

# What is the difference between multiple intelligences and learning styles?

The theory of multiple intelligences proposes that individuals possess a range of different types of intelligence. In contrast, learning styles refer to an individual's preferred way of processing information, such as visual, auditory, or kinesthetic.

While both theories emphasize the importance of recognizing and valuing individual differences in learning and development, multiple intelligence theory proposes a broader and more diverse range of intelligences beyond traditional academic abilities, while learning styles are focused on preferences for processing information.

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