

***Dermatoglyphic Multiple  
Intelligence (DMI)***

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**ThumbRule Technologies**



## *About Us*

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- ❑ **ThumbRule Technologies** will be the 1st company to introduce in India the world renowned concept of **"Multiple Intelligence Testing" (MIT)**
  - ❑ The results will be derived from a scientifically proven technique – **Dermatoglyphics**
  - ❑ Dermatoglyphics has been used in diverse fields like medicine, genetics, psychology, education, recruitment
  - ❑ MIT theory was propounded by **Prof Howard Gardner** of Harvard University in 1983
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## *Need of D.M.I.T. in India*

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- ❑ **12,000+ students** commit suicides in India every year due to exam related stress
  - ❑ **Parental and peer pressure** are prime causes for such high number of suicides
  - ❑ MIT can provide crucial inputs for student counseling and guidance
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# *Intelligence*

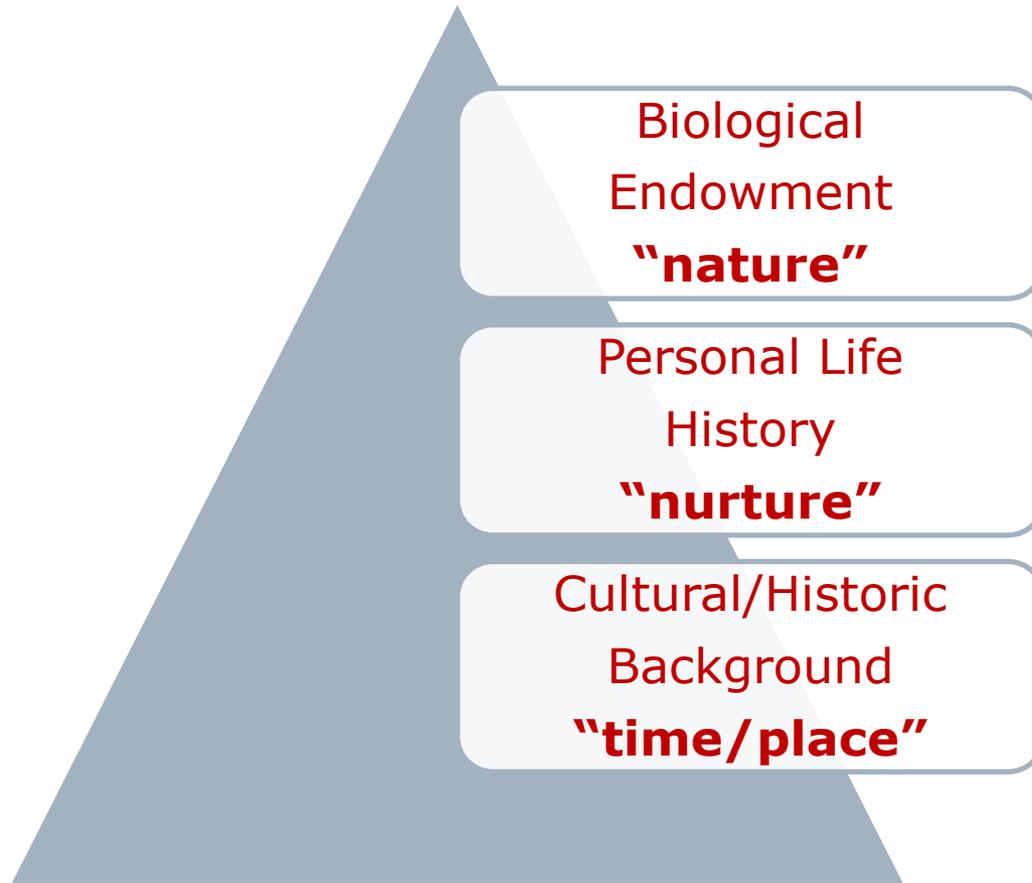
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## Webster's defines it as:

- ❑ The power of knowing
  - ❑ The ability to understand and/or deal with new situations
  - ❑ The skilled use of reason
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# *How Intelligence Develops*

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## *Howard Gardner (1943 - )*

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- Graduated from Boston School of Medicine in Neurology. Harvard Graduate School professor and psychologist in cognition and education.
  - He defines intelligence as: “an ability to solve problems or fashion products that are valued in one or more cultures.”
    - The question is not “How smart am I?” but rather “How am I smart?”
    - It is how we learn, process, and understand information.
  - His Theory of Multiple Intelligences consists of 8 types of intelligences.
  - He published a famous book ***“Frames of Mind” in 1983***
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## *Frames of Mind, 1983*

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Each person is a unique blend of dynamic intelligences which grow, expand and develop throughout life.

Rarely do they work alone, rather intelligences are combined in our activities. One can enhance another

Intelligence is not singular. Multiple intelligences can be identified and described.

Teaching students about their intelligence strengths helps them be self-advocates in their learning.

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# *Gardner's Multiple Intelligences*

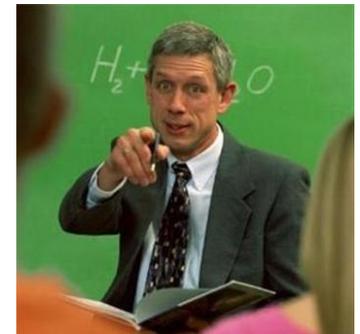
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- Verbal/Linguistic
  - Logical/Mathematical
  - Visual/Spatial
  - Musical/Rhythmic
  - Bodily/Kinesthetic
  - Interpersonal
  - Intrapersonal
  - Naturalist
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# *Multiple Intelligence*

## Verbal/Linguistic

- ❑ The ability to read, write, and communicate with words
- ❑ The ability to use language to express one's thoughts and to understand other people orally or in writing
- ❑ They tend to learn best by reading, taking notes, listening to lectures, and discussion and debate.
- ❑ This intelligence is high in **writers, lawyers, philosophers, journalists, politicians and teachers.**

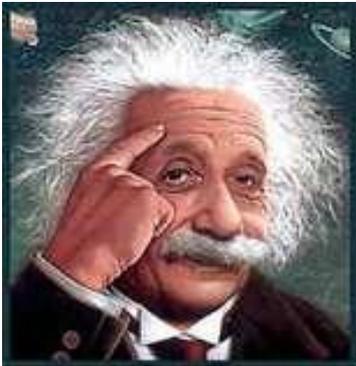


# *Multiple Intelligence*

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## Logical/Mathematical

- ❑ The ability to reason and calculate
- ❑ Enables individuals to use and appreciate abstract relations
- ❑ The ability to manipulate numbers, quantities, operations, etc.
- ❑ Many **scientists, mathematicians, engineers, doctors and economists** function in this level of intelligences.



# *Multiple Intelligence*

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## Visual/Spatial

- ❑ The ability to think in pictures and visualize future results
- ❑ The ability to imagine things in your mind's eye
- ❑ The ability to perceive spatial information
- ❑ Those with strong spatial intelligence are often proficient at solving puzzles. This intelligence is high in **artists, photographers, pilots, painters and architects.**



# *Multiple Intelligence*

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## Musical/Rhythmic

- The ability to create, communicate, and understand meanings made out of sound, the ability to compose music, to sing, and to keep rhythm & the ability to hear music, tones, and larger musical patterns.
- Since there is a strong auditory component to this intelligence, they learn best via lecture. They will often use songs or rhythms to learn and memorize information, and may work best with music playing in the background.
- Careers which suit those with this intelligence include ***instrumentalists, singers, conductors, disc-jockeys, and composers.***

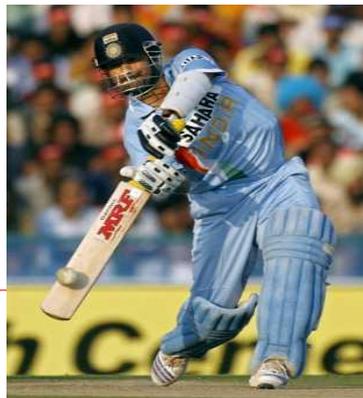


# *Multiple Intelligence*

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## **Bodily/Kinesthetic**

- ❑ Allows individuals to use all or part of one's body to create products, solve problems, or present ideas and emotions.
- ❑ Using the body in highly differentiated ways for expressive, recreational, or goal directed purposes
- ❑ People who have this intelligence usually enjoy acting or performing, and in general they are good at building and making things.
- ❑ Careers which suit those with this intelligence include ***athletes, dancers, actors, surgeons, builders and soldiers.***



# *Multiple Intelligence*

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## Interpersonal-Social Intelligence

- ❑ Enables individuals to recognize and make distinctions among others' feelings and intentions
- ❑ The ability to work effectively with others and display empathy
- ❑ Careers which suit those with this intelligence include ***politicians, managers, teachers, and social workers.***



# Multiple Intelligence

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## Intrapersonal

- ❑ The ability to distinguish among an individual's own feelings, to accurate mental models of themselves, and use them to make decisions about life.
- ❑ The capacity to know one's self, Careers which suit those with this intelligence include **philosophers, psychologists, theologians, writers and scientists.**



# *Multiple Intelligence*

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## **Naturalistic-Physical World Intelligence**

- Allows one to distinguish among, classify, and use features of the environment
- The ability to discriminate among living things and to see patterns in the natural world
- Careers which suit those with this intelligence include **wild Life Photographer , naturalists, conservationists, gardeners and farmers.**



# *Benefits of DMI Test*

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## CHILDREN / STUDENTS

- Identify best learning style for him/her
- Identify his/her inborn talents and weaknesses
- Tailor-make your child's learning programs
- Subject and educational stream selection



**Over Stressed ...  
Can This Happen!**

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## ***Need of DMI Test for Children?***

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- Reduce time, money, effort wasted over irrelevant course & classes
- Improve the relationship between parents and children
- Develop children's confidence
- A stress-free childhood for children



**Over Stressed ...  
Can This Happen!**

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# *Benefits of DMI Test*

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## INDIVIDUALS

- ❑ Discover your own abilities and choose right career path.
- ❑ Identify and develop your core competencies.
- ❑ Identify the most suitable learning and leadership styles.
- ❑ Improve your relationship with your loved one.



**Over Stressed ...  
Can This Happen!**

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## *Need of DMI Test for Individuals?*

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- ❑ Rekindle your passion for living and revive dreams from the past
- ❑ Invest wisely in suitable self-development programmes
- ❑ Assess your EQ, IQ, AQ, CQ
- ❑ Plan ahead to achieve your goals and live your dreams



**Over Stressed ...  
Can This Happen!**

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# *Benefits of DMI Test*

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## **CORPORATES**

- ❑ Find the right person for the right job.
- ❑ Pre-employment screening.
- ❑ Entrust your employee who has the most potential.
- ❑ Discover employees' potentials, maximizing efficiency and effectiveness.



## ***Need of DMI Test for Corporate?***

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- Create an all-star workforce
  - Reorganize your workforce for better performance
  - HR training and development
  - Evaluate your managers' performances and core competencies
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# Learning Styles

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- Learning styles are various approaches or ways of learning.
- They involve educating methods, particular to an individual that are presumed to allow that individual to learn best. Most people favor some particular method of interacting with, and processing information.

- The 3 main learning styles are :

1. Visual
2. Auditory
3. Kinesthetic

VISUAL  
SEE IT 

AUDITORY  
HEAR IT 

KINESTHETIC  
DO IT 

# Learning Styles

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	Visual	Auditory	Kinesthetic
To teach something	Write instructions	Explain verbally	Demonstrate
Tend to say	I see what you mean	I hear what you are saying	I know how you feel
Tend to say	Show me	Tell me	Let me try
Learning a new skill	Watch what the teacher is doing	Talk through with the teacher	Like to give it a try and work it out
Find it easiest to remember	Faces	Names	Things done
When meeting with an old friend	Say "it's great to see you!"	Say "it's great to hear your voice!"	Give them a hug or a handshake

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# *Intelligence Quotient (IQ)*

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- **Formula used to calculate IQ**
    - Mental Age (MA)
    - Chronological Age (CA)
    - $MA/CA \times 100 = IQ$
    - Average is 100
    - Tests mostly Verbal and Mathematical skills
  
  - ***IQ is thus an incomplete tool to measure intelligence***
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# ***Dermatoglyphics***

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- ❑ Dermatoglyphics refers to the branch of science which studies the patterns of skins (dermal) ridges present on the fingers, toes and the soles of human. Its reveals the congenital links between our fingers and our intrinsic qualities and talents.
  - ❑ Dermatoglyphics has absolute scientific basis, with 200 years of research. It is analyzed and proven with evidence in anthropology, genetics, medicine and statistics.
  - ❑ In recent years U.S., Japan and Taiwan have applied Dermatoglyphics to diagnose Down's Syndrome, congenital disorders, genetic abnormalities, educational fields, human resources management, employee recruitment etc.
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# *History of Dermatoglyphics Research*

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- 1823- John Evangelist Purkinji a professor of anatomy at the University of Breslau, published his thesis researching fingerprint patterns classification.
  - 1892- Sir Francis Galton a British anthropologist and a cousin of Charles Darwin, published his book, "Fingerprints", establishing the individuality and permanence of fingerprints.
  - 1926- Harold Cummins, the Father of Dermatoglyphics and C.Midlo studied all aspects of fingerprint analysis, from anthropology to genetics and embryology perspective. In 1943 he published a book, "Finger Prints, Palms and Soles", a bible in the field of dermatoglyphics.
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# *History of Dermatoglyphics Research*

- 1944- Dr Julius Spier Psycho-Analytic Chirologist published "The Hands of Children" he made several significant discoveries especially in the area of psycho-sexual development and the diagnosis of imbalances and problems in this area from the patterns of the hands.
- 1968- Sarah Holt, whose own work 'The Genetics of Dermal Ridges' published in 1968, summarizes her research in of dermatoglyphics patterns of both the fingers and the palm in various peoples, both normal and congenitally afflicted.
- 1970- USSR, Former Soviet Union use Dermatoglyphics in selecting the contestant for Olympics, and won over 50 Gold medals

# *History of Dermatoglyphics Research*

- 1976- Schaumann and Alter's 'Dermatoglyphics in Medical Disorders' published. Significant investigations have also been carried out into the dermatoglyphics indicators of congenital heart disease, leukaemia, cancer, rubella embryopathy, Alzheimer's disease, schizophrenia, diagnosis of chromosomal defects.
- 1980- China carries out research work of human potential, intelligence and talents in dermatoglyphics and human genome perspective.
- 1985- Dr. Chen Yi Mou Phd. of Havard University researched Dermatoglyphics based on Multiple Intelligence theory of Dr. Howard Gardner. First application of dermatoglyphics to educational fields and brain physiology.

# *History of Dermatoglyphics Research*

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- 2000- Dr Stowens, Chief of Pathology at St Luke's hospital in New York, claims to be able to diagnose schizophrenia and leukaemia with up to a 90% accuracy. In Germany, Dr Alexander Rodewald reports he can pinpoint many congenital abnormalities with a 90% accuracy.
  - 2004- IBMBS- International Behavioral & Medical Biometrics Society. Over 7000 reports and thesis published. Nowadays U.S., Japan, China, Taiwan apply dermatoglyphics to educational fields, expecting to improve teaching qualities and raising learning efficiency by knowing various learning styles.
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# *The Mileage of Fingerprint Analysis*

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## □ *Phase 1:*

In the year 1880, early century of 19, Dr. Henry Faulds stated the theory of finger RC (Ridge Count) and it's ability to distinguish the study method of inborn intelligences, but the element of the post analyzing was too simple.

## □ *Phase 2:*

In the year of 1943, Dr. Harold Cummins stated the theory of PI (Pattern Intensity) rate measuring, RC value, 3 delta areas value, potency value, different finger patterns with its different position. This theory using PI value is more accurate compared with the first method that only used RC measurement.

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# *The Mileage of Fingerprint Analysis*

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□ **Phase 3:**

In 1986 Nobel Prize in physiology was awarded to Dr. Rita Levi-Montalcini & Dr. Stanley Cohen for discovering the correlation between NGF (Nerve Growth Factor) and EGF (Epidermal Growth Factor).

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**Thank You....!**