

DISCRETE MATHEMATICS
Knowledge has Organizing Power

Theme 3
RECURRENCE RELATIONS AND COUNTING
Self-Referral Dynamics

LESSON 10
SETS AND RELATIONS
Creating through Self-Interacting Dynamics

Wholeness of the Lesson

Set theory is the subtlest level of mathematics, comparable to the unified field level of physics.
Science and Technology of Consciousness: The subtlest level of all creation is our own pure consciousness.

Main Points

1. A set is a whole made up of definite, distinct objects of our perception or awareness. Virtually every mathematical object can be understood in terms of set theory.
Science and Technology of Consciousness: Our own transcendental consciousness is the source of all creation.
2. Sets have operations, including union, intersection, complementation, cartesian product, and power set formation. These operations give structure and an internal self-interacting dynamism to the collection of all sets.
Science and Technology of Consciousness: The self-interacting dynamics of consciousness observing itself structures all of creation.
3. A relation on a set tells how the elements of the set are related to one another.
Science and Technology of Consciousness: With the regular practice of Transcendental Meditation, we see how parts are meaningfully related to one another.⁵
4. A function connects each element of the domain set to an element of the range set.
Science and Technology of Consciousness: Knowledge requires a knower, a process of knowing, and the known.

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¹Alexander CN, Rainforth MV, Gelderloos P. Transcendental Meditation, self-actualization, and psychological health: a conceptual overview and statistical meta-analysis. *Journal of Social Behavior and Personality* 1991 6(5):189-247

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Connecting the Parts of Knowledge
with the Wholeness of Knowledge
Operating with Sets

1. Sets have operations and relations.
 2. Set operations and relations structure all of mathematics.
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3. **Transcendental Consciousness** is a field of pure silence.
 4. **Impulses within the transcendental field:** are the source of the operations and relationships that structure all of creation.
 5. **Wholeness moving within itself:** In Unity Consciousness, we see that all dynamism has its source in the pure silence of our own unbounded self.

