

## 38 The Water Process Cards

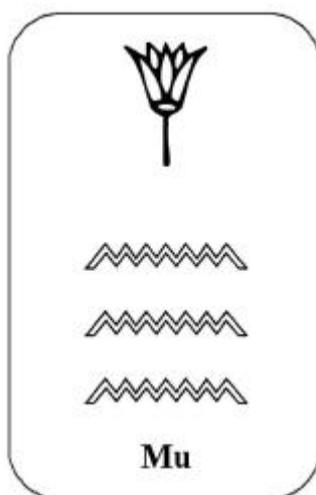
Water is a remarkable substance made of a combination of two very reactive gases -- hydrogen and oxygen. It can easily exist in all four matter states under the right temperature conditions. Surprisingly its solid state (ice) is less dense than its liquid state (water), which means that ice floats on water. If not for this quality oceans would freeze from the bottom and become solid and might prohibit formation of life. As it is ice forms on top of the water and life forms can continue to exist in the water below during periods of very cold weather.

On our planet the moderate temperatures mean that water is found very commonly in its liquid state. The two gases that make up water are both excellent sources of chemical energy. Very early in the evolution of life on our planet the plants learned to use the energy of sunlight to split water into its two dynamic gases. The plants decided to use the hydrogen to build hydrocarbon molecules out of carbon dioxide for their physical bodies. However, they decided to release most the oxygen left over from the split water molecules and carbon dioxide molecules into the atmosphere instead of also using it all as part of their chemistry. The result was that as plants flourished, their excreted "waste" oxygen built up in the atmosphere creating a toxic crisis. To resolve the situation the plants had to reverse their metabolism into burning their hydrocarbon bodies with the oxygen to release carbon dioxide back into the atmosphere. To create a controlled burn that would not wipe out whole plant environments, they made the "reverse metabolism" organisms move about and "graze" on the plant material and developed ways of attracting these "animals" that breathed oxygen and excreted carbon dioxide to often focus on eating specialized parts of the plants that they offered up as a "sacrifice" to maintain an ecosystem in balance. The result is that we ended up with a planet in which life forms all eat each other. Predatory animals roam around thinning the herds of grazers so that they do not over-burn the vegetation.

The original life forms on earth were and still are archaeons, microbial organisms with no cell nucleus that often use primal geothermal energy and alternative chemical and energy systems to thrive. They are thought to have evolved before earth conditions could support the chemistry of the multicellular plant and animal life forms that came later. Many

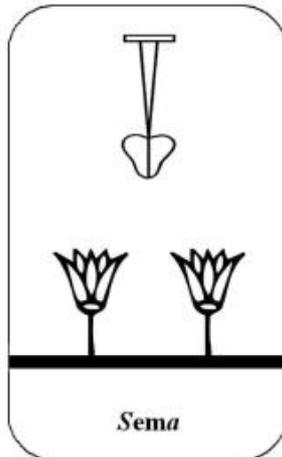
archaeons live down deep in the earth and can make use of ammonia, metal ions and other materials to survive. They are often known as extremophiles, because they often can thrive in certain very salty or very hot environments that would be harsh or intolerable to other organisms.

After the planet cooled to the point that its water vapor cloud cover condensed into oceans and the sun “came out”, organisms adapted to the sunlight energy resource and developed photosynthesis. They soon became the dominant life forms on the planet mostly living as unicellular organisms floating about in the large oceans and other bodies of water. Our current atmosphere of oxygen, nitrogen, carbon dioxide and other trace gases began to evolve. Water became the essential component of life. So the water process is the story of life as we know it. Other forms of life exist, but on our planet life is mainly based on the water process. So let’s explore its ten phases.

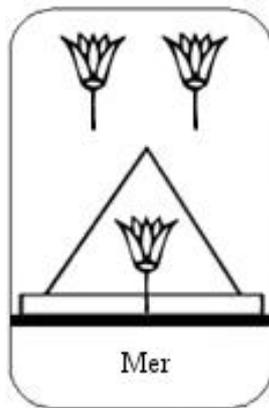


The process begins with water, the Ace of Lotuses. The Egyptians called it “Mu”, and to them it represented a form of potential energy for generating all forms of life. The female version of “mu” is “mut”, which means “mother” and is a nickname for Hathor, the goddess of all life. Water is an energy, and this expresses itself in life as feeling and emotion. The fundamental feeling is that of LOVE, which is the innate unity of all life forms. The suit for the water process is the lotus, a plant that grows in water. The lotus flowers that appear separately on the surface of the water are connected by the lotus roots that run down below the surface in the mud at the bottom of a pond or lake. The lotus prefers quiet water and suggests that a deep silence underlies the emotions that appear on the surface of life. The lotus in Egypt is a symbol of the beauty and serenity that a sense of spiritual unity expresses. The lotus later became a symbol of the placenta that

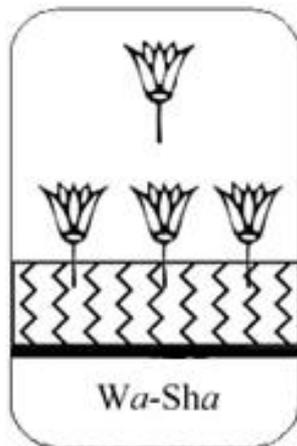
floats in the pond of the womb during pregnancy and nourishes the fetal infant before birth. It also became a symbol of the spiritual state of matter that underlies all the four physical states of matter. Love is not an emotion. It is a state of being in which all parts of reality are unified.



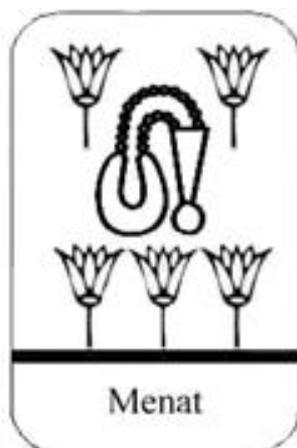
"Sema" is the two of lotuses. It is the recognition that two seemingly separate entities are really one. The image is of two lotus flowers joined by the water in which they grow and the root that lies invisible in the mud beneath the water. When people find that recognition, it generates a feeling of appreciation. Two people who feel that appreciation can move together and begin to form bonds of friendship and intimacy. This is a microcosm of the larger unity that we all share. Unfortunately we are indoctrinated from infancy with a fear of "danger" so that we tend to put up walls of protection that separate us from others. Nevertheless, the urge to procreate eventually breaks through those barriers and leads to small experiments with appreciation and bonding -- at least enough that we have families and tribes to perpetuate life. This is a start of something that can grow much larger in scope.



The pyramid (Mer) was a large monolithic stone structure built by ancient Egyptians. Other cultures also tended to make such structures to mark sacred spots or as memorial tombs. The connection with water is that water was used to be sure the foundation was level. Then water was used to float the heavy stones to the site where the monument was raised. Such huge monuments required a lot of community cooperative work, which meant that the population had to bond into an agreement to carry out a large spiritual project. This required a high level of group appreciation for the project and recognition that this project represented the support of the people for the unity of the civilization over a stretch of time that lasted thousands of years rather than a single lifespan of a few decades. The spiritual feeling of the project far outweighed the totality of the stones that were cut, moved, and set in place. With the fleeting emotions we feel today it may be hard to imagine the scale of emotion that moved the ancients. The simplest pyramid is the family with a patriarch in charge and the generations that follow below. Family unity requires training each generation in the successful policies of the family's economic stability, plus developing new innovative strategies. Each member is respected and each contributes some share to the welfare of the whole family and its community. "Mer" also means love. The pyramid was a symbol of Isis and her love for Osiris and the people of Egypt. It was a monument built by the Egyptians to her, and Osiris was deep inside her heart.

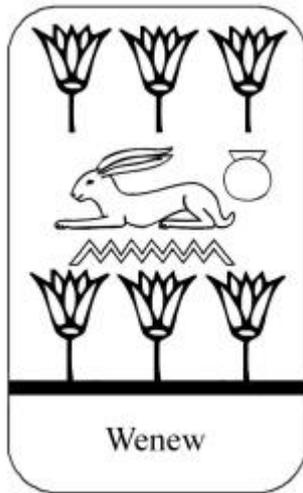


"Wa-Sha" is the serene meditative energy of a lotus pond. Such serenity gives birth to inspiration. Rest is the basis of activity. With no solid foundation it is difficult to develop any structure in life. Still water becomes the mirror in which reality is reflected. "Wa" is meditation, and "Sha" is a body of water. We now know that the truth is that even stillness is filled with dynamic energy, but that energy is mostly contained within the current stable phase of the matter in which it exists. "Wa-Sha" is an incubation phase with subtle growth going on beneath the surface. With proper technology the innate energy of anything can be released and harnessed in various ways into creative activity. Energy that is released is then replaced by the ambient energy of the environment in a relatively stable cycle of energy flow. It is the breath of life, and a flow of energy between inside and outside the boundaries of what an organism thinks of as its identity.

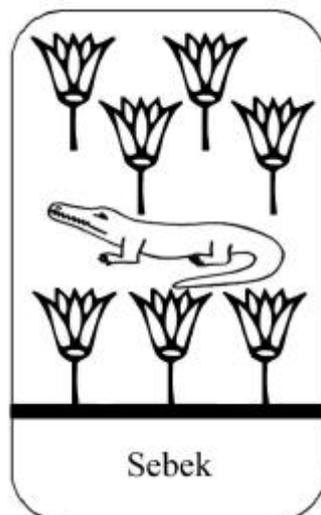


"Menat" is the symbol for the necklace of Hathor, the Cosmic Mother. The matriarch of the family fills the role of Hathor, with her love and nurturing support for each member of the family. The balance on the back of the necklace symbolizes a "pacifier" to comfort the trials and tribulations of the toddler learning to walk and talk and eat and then manage the challenge of his pee and poo, while the gold and jewels on the front provide an incentive to succeed in

higher goals of life. The necklace of Hathor is a ritual implement used in one of the highest initiations of Egyptian civilization.



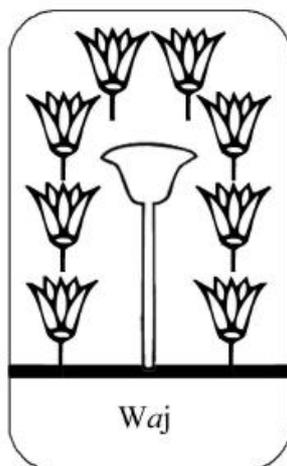
"Wenew" is a little bunny rabbit. It also stands for a healthy young boy who enjoys playing outdoors, hopping about happily in a garden. His innocence matures with experience, but the root of his enthusiasm for life is in the heart. The rabbit was a symbol for Osiris, who carried the nickname of the beautiful boy. "Wenew" was the name of the administrative region in the center of Egypt where the great temple of Baba-Thoth was. The Greeks called it Hermopolis and associated it with their deity Hermes who was closest to the Sun. This card represents youthful vitality and the willingness to explore creation.



"Sebek" is the crocodile that also may lurk in the garden by the pond. He is dangerous and can eat little boys who are not alert as they play in the garden. On the other hand he is an illusion in the light garden. The idea of predator and prey is a delusion, a fantasy in the eternal light show of life. It happened to be how life

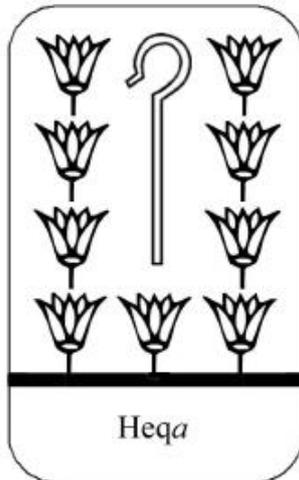
evolved on this planet, but this multi-billion-year phenomenon is just a strange dream, and an aberration from the norm. Life forms require energy to survive, and this must come from somewhere. The habit of life forms feeding on other life forms happened simply due to a minor oversight when the plants threw away a lot of oxygen and then found that an oxygen atmosphere was a problem for them. Using sunlight to split water, both components could have been used as fuel. It was an accident that the two components got separated and ended up producing the cycle of eating and being eaten, life and death -- all of which is an illusion in the light of reality. The future evolution of life on this planet will heal this split in the system of energy use and even go far beyond that. Ancient Egyptians understood the illusion and revered crocodiles, raised them in sacred sanctuaries, and made them into mummies, stuffing their bellies with old papyrus scrolls.

Mankind has already figured out how to harvest sunlight, geothermal, and other resources to generate electrical energy. As this technology matures its efficiency will increase. The evolution of biotechnology and Artificial Intelligence are rapidly opening new frontiers. Not only will the plant and animal split be resolved, the animate and inanimate split will also be resolved. The ecosystem will awaken to countless new life forms, and many old ones will pass away. We will develop life forms that can survive and thrive in alien environments that we currently lack the imagination to grasp as possibilities. It will be sad to lose many life forms, but almost all life forms that previously lived on our planet are already now extinct, and that is the way life evolves.

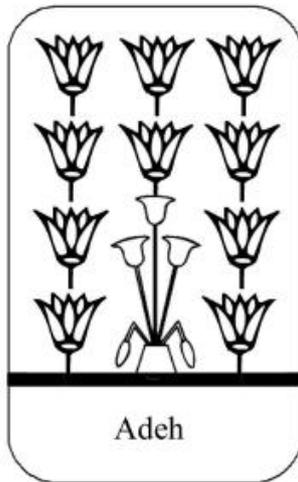


"Waj" means "green" and is the name of the green papyrus that grows in the swamps of the delta. This is the symbol of youth growing into maturity. The papyrus for Egyptians was also a

symbol of the technology of writing and a type of paper that made books in the form of scrolls possible. This meant that literature and records could pass on the knowledge and wisdom of Egyptian civilization from generation to generation and was a sign of a mature culture. The technology of writing made Egypt a leader in the world.



"Heqa" is the crook carried by a shepherd. The pharaoh of Egypt also carried this scepter along with his flail. The flail was for the basic work of agriculture. The crook was for the secondary industry of animal husbandry. Along with fish from the Nile, the raising or domesticated livestock added important protein to the diet of Egyptians. It also supplied leather and horn material. Adequate food supply in a desert land was always central to feeding the population of Egypt. The crook was a symbol of authority indicating a leader. A shepherd knew how to lead his flocks to green pastures and a good supply of water. The symbolism is that a person who knows how to satisfy his own needs in life can become a leader who helps others to find those same satisfactions.



"Adeh" is a symbol for celebration in Egypt. The Egyptians started their New Year celebration when they saw the Nile begin to rise again as it entered the season of its annual flood. This inundation by the Nile watered the dry land and brought fertile soil from the South so that the delta lands were ready for sowing as soon as the waters receded. The flooded lands of the delta would bloom with lush vegetation and bring Egypt back to life after the very hot and dry summer season. During flood season work would stop for a while and there would be lots of banqueting and celebration. A favorite tutelary deity at this time was Bes, the odd-looking dwarf who was a transformation of Baba. In this drawing you can see him holding a bouquet of flowers and a bouquet of papyrus fronds to welcome the New Year celebration.



Bes loved music and dance and all forms of entertainment. He also encouraged mothers to get pregnant and bear children for the next generation. So his image was often present in the Mamisi birth chapels of large temples. (There is a fine example at Hathor's Dendera Temple.) In this way he completed the life cycle by urging the mature adults to celebrate by giving birth to a new generation of lively young children.

## 38 Study Questions

- \* What were probably the first life forms living on early Earth and why?
- \* What was their energy source and “food”?
- \* Why did the sun “come out”?
- \* Once the sun was shining, life forms adapted to using its energy to split molecules of water and of carbon dioxide. They soon became the dominant life form. At first where did they mostly live?
- \* What was the first great crisis for life on planet Earth, and how was it solved?
- \* What was the long-term result of that solution in the pattern of life on the planet?
- \* What is the fundamental feeling associated with water?
- \* What does “Sema” mean?
- \* In what fundamental ways were pyramids related to water?
- \* How is a lotus pond related to meditation?
- \* What is the secret symbol in the Menat necklace and how does it relate to life?
- \* What was the meaning of the bunny rabbit symbol in ancient Egypt?
- \* Crocodiles were endemic to Egypt in the Nile and its swamps. What did crocodiles represent to ancient Egyptians?
- \* How is the apparent “split” between minerals, plants, and animals being healed, and what is the outlook that then occurs?
- \* What does the symbol of the papyrus stalk represent?

- \* What does the shepherd's crook represent, and why was it used as a symbolic scepter by pharaohs and even today by the Pope?
- \* How did ancient Egyptians feel about the Nile's flood that came every year to Egypt?
- \* Who was Bes?
- \* How does the material in this article relate to the Series Overview?