



Twelfth Decree: Let There be Light

“For God, who commanded the light to shine out of darkness, hath shined in our hearts, to give the light of the knowledge of the glory of God in the face of Jesus Christ.” 2 Corinthians 4:6

“He who longed to be of service to the cause of Christ, has been so quickened by the life-giving rays of the Sun of Righteousness, that he has been enabled to bear much fruit to the glory of God”
Christian Education, 199.

Twelfth Decree: Let There be Light

“And the children of Israel saw the face of Moses, that the skin of Moses' face shone: and Moses put the vail upon his face again, until he went in to speak with him.” Exodus 34:35.

“The glory that shone on the face of Moses was a reflection of the righteousness of Christ in the law. The law itself would have no glory, only that in it Christ is embodied. It has no power to save. It is lusterless only as in it Christ is represented as full of righteousness and truth.” The Review and Herald, April 22, 1902

Twelfth Decree: Let There be Light

- Let us Reason Together
- True Education versus Pantheism
- Robe of Righteousness
- Power in the Spectrum
- Power in the Human Body
- Power in Water
- Power in Music
- Power of Alpha and Omega
- Christ our Righteousness

Twelfth Decree: Let There be Light

“Come now, and let us reason together, saith the LORD: though your sins be as scarlet, they shall be as white as snow; though they be red like crimson, they shall be as wool.” Isaiah 1:18

■ True Education and Pantheism

Definition of True Education

"God teaches by the enunciation of principles, or universal laws [Isaiah 28:9-11], and the [Holy] Spirit which comes by faith enlightens the senses that we may grasp the illustrations of these laws in the physical world. That is heaven's method of teaching the angelic throng, and it was the method applied before the fall."

Living Fountains or Broken Cisterns, 59, E. A Sutherland

"The time has come when our people should understand that it is not profitable for them to spend their time and talents in selling the medical work into which the author is weaving dangerous spiritual sophistries."

A book by John Harvey Kellogg, M.D., titled The Living Temple, in which the teachings of pantheism appeared.
—Letter 66, 1907.

Definition of Pantheism

"Pantheism is the belief that reality is identical with divinity, or that all-things compose an all-encompassing, immanent god. Pantheist belief does not recognize a distinct personal God... but instead characterizes a broad range of doctrines differing in forms of relationships between reality and divinity. Pantheistic concepts date back thousands of years, and pantheistic elements have been identified in various religious traditions. The term pantheism was coined by mathematician Joseph Raphson in 1697 and has since been used to describe the beliefs of a variety of people and organizations.

Pantheism was popularized in Western culture as a theology and philosophy based on the work of the 17th century philosopher Baruch Spinoza, in particular, his book 'Ethics'. A pantheistic stance was also taken in the 16th century....Ideas resembling pantheism existed in South and East Asian religions before the 18th century notably Sikhism, Hinduism, Sanamahism, Confucianism, and Taoism."

<https://en.wikipedia.org/wiki/Pantheism>

■ True Education – Garden of Eden

■ Adam and Eve were Taught by the Creator Himself

“The holy pair were not only children under the fatherly care of God but students receiving instruction from the all-wise Creator. They were visited by angels, and were granted communion with their Maker, with no obscuring veil between. They were full of the vigor imparted by the tree of life, and their intellectual power was but little less than that of the angels.

The mysteries of the visible universe—“the wondrous works of Him which is perfect in knowledge” (Job 37:16)—afforded them an exhaustless source of instruction and delight. The laws and operations of nature, which have engaged men’s study for six thousand years, were opened to their minds by the infinite Framer and Upholder of all....

....They held converse with leaf and flower and tree, gathering from each the secrets of its life. With every living creature, from the mighty leviathan that playeth among the waters to the insect mote that floats in the sunbeam, Adam was familiar. He had given to each its name, and he was acquainted with the nature and habits of all. God’s glory in the heavens, the innumerable worlds in their orderly revolutions, “the balancings of the clouds,” the mysteries of light and sound, of day and night—all were open to the study of our first parents.

On every leaf of the forest or stone of the mountains, in every shining star, in earth and air and sky, God’s name was written. The order and harmony of creation spoke to them of infinite wisdom and power. They were ever discovering some attraction that filled their hearts with deeper love and called forth fresh expressions of gratitude.”
Patriarchs and Prophets, 53

■ Power in the Robe of Righteousness

“And they were both naked, the man and his wife, and were not ashamed.” Genesis 2:25.

“I was afraid, because I was naked; and I hid myself.”
Genesis 3:10.

“The divine presence was manifested in the garden. In their innocence and holiness they had joyfully welcomed the approach of their Creator; but now they fled in terror, and sought to hide in the deepest recesses of the garden. But “the Lord God called unto Adam, and said unto him, Where art thou? And he said, I heard Thy voice in the garden, and I was afraid, because I was naked; and I hid myself. And He said, Who told thee that thou wast naked? Hast thou eaten of the tree, whereof I commanded thee that thou shouldest not eat?” Patriarchs and Prophets, 57.

Definition of the Robe of Righteousness

- “The white robe of character, which is the righteousness of Christ.” Adventist Home, 518.
- “Garments of praise and thanksgiving—the robe of Christ’s righteousness.” Great Controversy, 568.
- “The garments of salvation,” and cover you with “the robe of righteousness.” Isaiah 61:10.” Christ Object Lessons, 206.
- “The righteousness of Christ is the white robe of His saints.” Christ Object Lessons, 299.
- “The only robe which the saints will need to meet the Lord is the righteousness of Christ.” Isaiah 61:10; Revelation 19:8.” Great Controversy, 692.

“After his transgression Adam at first imagined himself entering upon a higher state of existence. But soon the thought of his sin filled him with terror. The air, which had hitherto been of a mild and uniform temperature, seemed to chill the guilty pair. The love and peace which had been theirs was gone, and in its place they felt a sense of sin, a dread of the future, a nakedness of soul. The **robe of light** which had enshrouded them, now **disappeared**, and to supply its place they endeavored to fashion for themselves a covering; for they could not, while unclothed, meet the eye of God and holy angels.” Patriarchs and Prophets, 57.

■ Power in the Spectrum

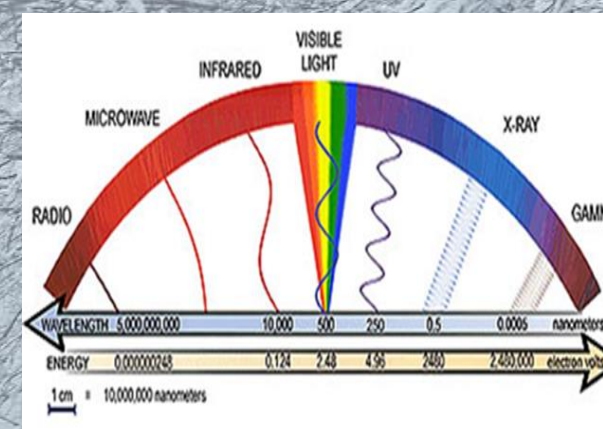
Effects of Sin on the Body

“The [white] **robe of light** which had enshrouded them, now **disappeared**.... they could not, while unclothed, meet the eye of God and holy angels.” Patriarchs and Prophets, 57.

“But we are all as an unclean thing, and all our righteousness are as **filthy rags** [soiled feminine hygiene product]; and we all do fade as a leaf; and our iniquities, like the wind, have taken us away.” Isaiah 64:6.
<https://www.gotquestions.org/filthy-rags.html>

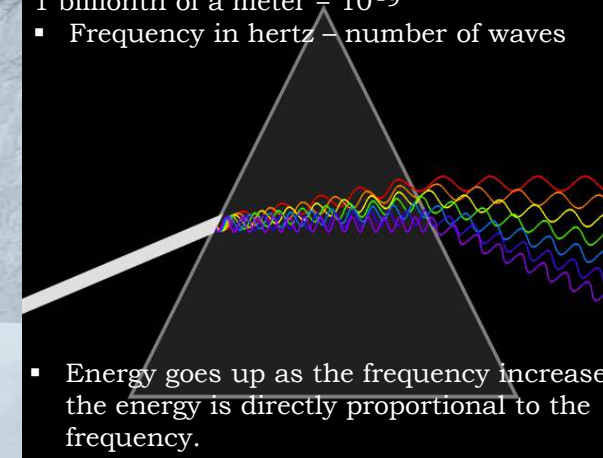
“God endowed man with so great vital force that he has withstood the accumulation of disease brought upon the race in consequence of perverted habits, and has continued for six thousand years. This fact of itself is enough to evidence to us the strength and electrical energy that God gave to man at his creation. It took more than two thousand years of crime and indulgence of base passions to bring bodily disease upon the race to any great extent.

If Adam, at his creation, had not been endowed with **twenty times** as much vital force as men now have, the race, with their present habits of living in violation of natural law, would have become extinct. At the time of Christ’s first advent, the race had degenerated so rapidly that an accumulation of disease pressed upon that generation, bringing in a tide of woe, and a weight of misery inexpressible. The wretched condition of the world at the present time has been presented before me. Since Adam’s fall, the race has been degenerating. Some of the reasons for the present deplorable condition of men and women, formed in the image of God, were shown me. A sense of how much must be done to arrest, even in a degree...



https://en.wikipedia.org/wiki/Electromagnetic_spectrum

- Wavelengths in meter - nanometers = 1 billionth of a meter = 10^{-9}
- Frequency in hertz - number of waves



...the physical, mental, and moral decay, caused my heart to be sick and faint. God did not create the race in its present feeble condition. This state of things is not the work of Providence, but the work of man; it has been brought upon by wrong habits and abuses, by violating the laws that God has made to govern man’s existence.” Fundamental of Christian Education, 22

“The electromagnetic spectrum covers electromagnetic waves with frequencies ranging from below one hertz to above 1025 hertz, corresponding to wavelengths from thousands of kilometers down to a fraction of the size of an atomic nucleus. This frequency range is divided into separate bands, and the electromagnetic waves within each frequency band are called by different names.”

- Applied Sciences:
- Astro-Physics
- Physics
- Spectroscopy
- Chemistry
- Mathematics

■ Power in the Human Body

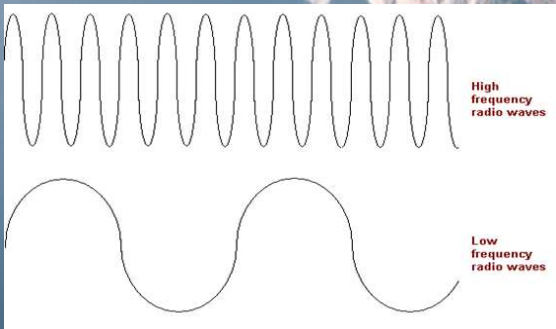
“Frequency describes the number of waves that pass a fixed place in a given amount of time. ... Usually frequency is measured in the hertz unit, named in honor of the 19th-century German physicist Heinrich Rudolf Hertz. The hertz measurement, abbreviated Hz, is the number of waves that pass by per second.”

<https://www.qrg.northwestern.edu/projects/vss/docs/communications/1-what-is-frequency.html>

“Does the human body have a frequency?

According to the existing research, the natural frequency of a human-standing body is about 7.5 Hz, and the frequency of a sitting posture in the cab is generally 4–6 Hz.”

<https://www.google.com/search?q=frequency+of+the+human+body&oq=frequency+of+the+human+body&aqs=chrome..69i57j0i22i30l6j69i60.5497j0j7&sourceid=chrome&ie=UTF-8>



<https://www.qrg.northwestern.edu/projects/vss/docs/communications/1-what-is-frequency.html>

Frequency describes the number of waves that pass a fixed place in a given amount of time. So if the time it takes for a wave to pass is 1/2 second, the frequency is 2 per second. If it takes 1/100 of an hour, the frequency is 100 per hour. For example, an 'A' note on a violin string vibrates at about 440 Hz (440 vibrations per sec.).

#	Name of Body Organs	Frequency (Hz)
1	Brain	7.2-9.0
2	Human Body	6.2-7.8
3	Heart	6.7-7.0
4	Liver	5.5-6.0
5	Pancreas	6.0-8.0
6	Disease starts at	5.8

“The human brain emits waves, like when a person focuses his/her attention or remembers something. This activity fires thousands of neurons simultaneously at the same frequency generating a wave — but at a rate closer to 10 to 100 cycles per second. ... Signals from the brain are a billionth of that strength... there are things you can do ...to strengthen desirable brain waves and help with stress, sleep, and productivity. Regular meditation has been shown to increase alpha waves – your relaxation brain waves – and reduce beta waves – the brain waves of active thought and learning.” <https://nexus.jefferson.edu/science-and-technology/how-to-manipulate-brain-waves-for-a-better-mental-state/>

“In general, the fundamental frequency of the complex speech tone – also known as the pitch or f_0 – lies in the range of 100-120 Hz for men, but variations outside this range can occur. The f_0 for women is found approximately one octave higher. For children, f_0 is around 300 Hz.” <https://www.dpamicrophones.com/mic-university/factsaboutspeechintelligibility#:~:text=In%20general%2C%20the%20fundamental%20frequency,f0%20is%20around%20300%20Hz.>

■ Power in Water – $2\text{H}_2 + \text{O}_2 \longrightarrow 2\text{H}_2\text{O}$

“Whosoever drinketh of the water that I shall give him shall never thirst; but the water that I shall give him shall be in him a well of water springing up into everlasting life.” John 4:14.

“In health and in sickness, pure water is one of Heaven’s choicest blessings. Its proper use promotes health. It is the beverage which God provided to quench the thirst of animals and man. Drunk freely, it helps to supply the necessities of the system, and assists nature to resist disease.”

The Ministry of Healing, 237, 1905

- Water is an essential nutrient and plays a key role in the human body. We can survive up to several weeks without food, but only a few days without water. Every system in the body, from cells and tissues, to vital organs requires water to function. Water carries nutrients to all cells in our body and oxygen to our brain.
- Water allows the body to absorb and assimilate minerals, vitamins, amino acids, glucose and other substances.
- Water flushes out toxins and waste.
- Water helps to regulate body temperature.
- Water acts as a lubricant for joints and muscles.”

<https://www.efbw.org/index.php?id=46#:~:text=Water%20carries%20nutrients%20to%20all,helps%20to%20regulate%20body%20temperature>

The Mystery of Water

“It is hard to over-emphasize the importance of the hydrogen bonds in water. They enable water molecules to pull each other through the tiniest blood vessels in your body – often working against the force of gravity – carrying oxygen and nutrients to parts that would otherwise be hard to reach. The same mechanism means that plants can suck water up from deep below the Earth’s surface to nourish the leaves and branches that grow in the sunshine.

Water is not only attracted to itself but will stick to almost anything else it comes across.... That ability to interact with so many things is crucial for life. It means that water can dissolve a wide variety of nutrients and other ingredients and move them around our bodies.

The basic molecules of life – DNA, proteins, molecules that make up cell membranes, etc. – would not work without water. The billions of protein molecules inside your body only fold into the right shapes to do their jobs because their interaction with water nudges them into the correct three-dimensional formats.”

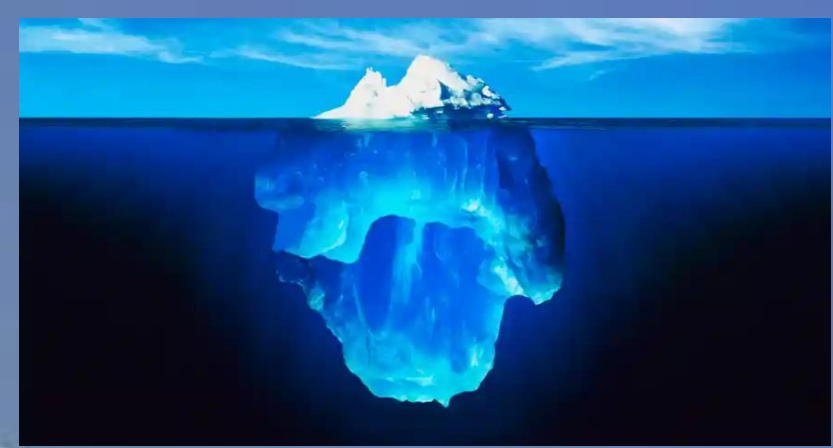
<https://www.theguardian.com/global/2015/may/11/water-weirdest-liquid-planet-scientists-h2o-ice-firefighters>

■ Power in Water – $2\text{H}_2 + \text{O}_2 \longrightarrow 2\text{H}_2\text{O}$

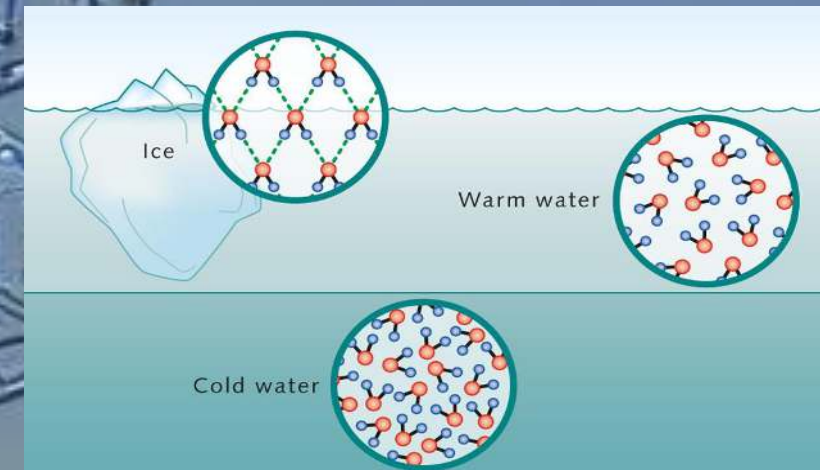
“Water breaks all the rules. Since the 19th century, chemists have developed a robust framework to describe what liquids are and what they can do. Those ideas are almost useless at explaining the weird behavior of water. Its strangeness underlies what happens every time you drop an ice cube into a drink. Think about it for a moment: in front of you is a solid, floating on its liquid. Solid wax does not float on melted wax; solid butter does not float on melted butter in a hot saucepan; rocks do not float on lava when it spews out of a volcano.

Ice floats because water expands when it freezes.... In frozen lakes and rivers, the ice does more than decorate the surface; it insulates the water underneath, keeping it a few degrees above freezing point, even in the harshest of winters. Water is at its most dense at 4C [39.2F] and, at that temperature, will sink to the bottom of a lake or river. Because bodies of water freeze from the top down, fish, plants and other organisms will almost always have somewhere to survive during seasons of bitter cold, and be able to grow in size and number.

The strangest thing about this colourless, odourless liquid is that it is a liquid at all. If water followed the rules, you would see nothing in that glass and our planet would have no oceans at all. All of the water on Earth should exist as only vapour: part of a thick, muggy atmosphere sitting above an inhospitable, bone-dry surface....



Sea ice and icebergs are an example of the strange phenomenon of a solid floating on its liquid.
Photograph: Ralph A Clevenger/CORBIS



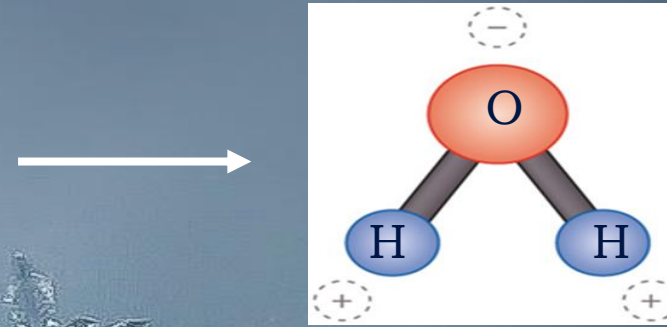
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....A water molecule is made from two very light atoms – hydrogen and oxygen – and, at the ambient conditions on the surface of the Earth, it should be a gas. Hydrogen sulphide (H_2S), for example, is a gas, even though it is twice the molecular weight of water. Other similar-sized molecules – such as ammonia (NH_3) and hydrogen chloride (HCl) – are also gases.”

“To understand why water bends all the rules, think about how an insect – a water strider, say – can zip along the surface of a pond. It doesn’t fall into the depths because of the water’s surface tension, which is immense when compared with that of other liquids. This comes about because of the intriguing ability of water molecules to stick to each other. In the liquid form, the hydrogen atoms of one water molecule are attracted to the oxygen atom of another molecule.

Each water molecule can form up to four of these hydrogen bonds and, collectively, they give water a cohesiveness unique in liquids. This explains why water is a liquid on the surface of the Earth: the hydrogen bonds hold the molecules together in such a way that more energy than normal is needed to separate them, for example if you want to boil the liquid into a gas.



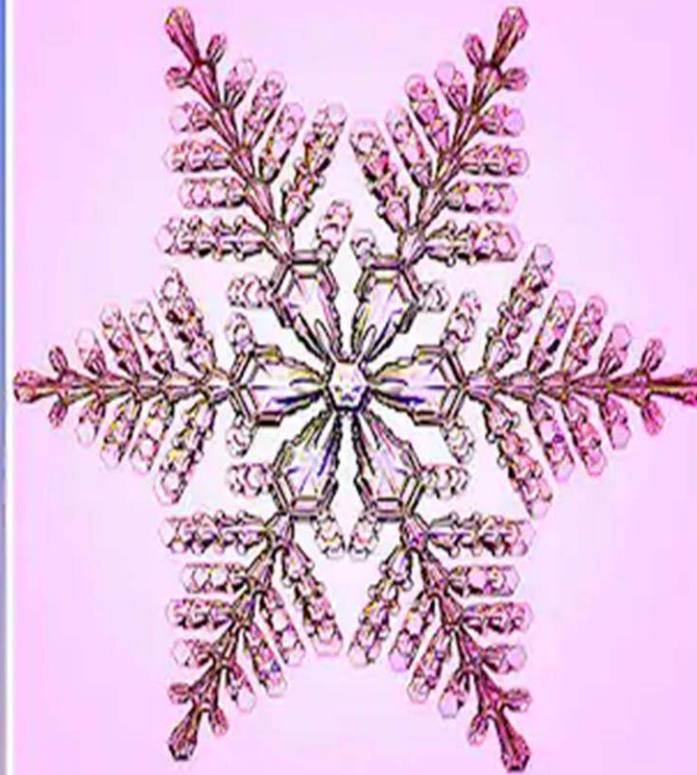
Water is so common and so familiar that it is mundane: every day we drink it, touch it, wash with it, wet things, dry things, we boil it, freeze it and swim in it. We live in a world where the environmental conditions allow us to explore the landscape of water at different temperatures and pressures; where it can slide comfortably between solid, liquid and gas (or sometimes all three at once).

The more we examine water, the stranger it gets. We study it because we are made from it, [70%] and it is, perhaps, surprising that the thing we are made from is still such a mystery.”

<https://www.theguardian.com/global/2015/may/11/water-weirdest-liquid-planet-scientists-h2o-ice-firefighters>

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“These interior details reveal more or less completely the preexisting forms that the crystals assumed during their youth in cloudland,” he wrote. “Was ever life history written in more dainty or fairy-like hieroglyphics? How charming the task of trying to decipher them.” Bentley, 1902. “The shape of a snowflake is controlled by the temperature and humidity of the air in which it crystallized.” Nakaya, 1930.



“Snowflakes' symmetric shapes hint at the behavior of the water molecules they are made of. They come in hexagonal plates and six-pointed stars because water molecules form tetrahedrons, which always stack up into six-sided structures. This phenomenon still fascinates physicists.... Libbrecht, who is chairman of the physics department at Cal Tech, began studying snowflakes in an effort to understand how molecules organize themselves into complex crystal structures — a major mystery in material science.” Cal Tech physicist Kenneth Libbrecht creates “designer snowflakes” by manipulating temperature and humidity in an ice crystal growth chamber at his lab.” <https://www.washingtonpost.com/news/speaking-of-science/wp/2017/01/11/the-man-who-uncovered-the-secret-lives-of-snowflakes/>

■ Power in Music

“The history of the songs of the Bible is full of suggestion as to the uses and benefits of music and song. Music is often perverted to serve purposes of evil, and it thus becomes one of the most alluring agencies of temptation. But, rightly employed, it is a precious gift of God, designed to uplift the thoughts to high and noble themes, to inspire and elevate the soul.

The value of song as a means of education should never be lost sight of. Let there be singing in the home, of songs that are sweet and pure, and there will be fewer words of censure and more of cheerfulness and hope and joy. Let there be singing in the school; and the pupils will be drawn closer to God, to their teachers, and to one another.

As a part of religious service singing is as much an act of worship as is prayer. Indeed, many a song is prayer. If the child is taught to realize this, he will think more of the meaning of the words he sings and will be more susceptible to their power.” Child Guidance, 523.



“Concerning the commandments the Israelites were instructed: “Thou shalt teach them diligently unto thy children, and shalt talk of them when thou sittest in thine house, and when thou walkest by the way, and when thou liest down, and when thou risest up.” Accordingly Moses directed the Israelites to set the words of the law to music. While the older children played on instruments, the younger ones marched, singing in concert the song of God’s commandments. In later years they retained in their minds the words of the law which they learned during childhood.

If it was essential for Moses to embody the commandments in sacred song, so that as they marched in the wilderness, the children could learn to sing the law verse by verse, how essential it is at this time to teach our children God’s Word! Let us come up to the help of the Lord, instructing our children to keep the commandments to the letter. Let us do everything in our power to make music in our homes, that God may come in.” Child Guidance, 524.

■ Power in Music

“Frequency describes the number of waves that pass a fixed place in a given amount of time. The hertz measurement, abbreviated Hz, is the number of waves that pass by per second.”

Tuning

Frequencies for equal-tempered scale, A4 = 440 Hz

Other tuning choices, A4 =

432 434 436 438 440 442 444 446

Speed of Sound = 345 m/s = 1130 ft/s = 770 miles/hr

More about Speed of Sound

("Middle C" is C4)

“The eighth note, or octave, is given the same name as the first, but has double its frequency. The name octave is also used to indicate the span between a note and another with double frequency. To differentiate two notes that have the same pitch class but fall into different octaves, the system of scientific pitch notation combines a letter name with an Arabic numeral designating a specific octave. For example, the now-standard tuning pitch for most Western music, 440 Hz, is named a' or A4.

There are two formal systems to define each note and octave, the Helmholtz pitch notation and the scientific pitch notation.”

Note	Frequency (Hz)	Wavelength (cm)
C0	16.35	2109.89
C#0/Db0	17.32	1991.47
D0	18.35	1879.69
D#0/Eb0	19.45	1774.20
E0	20.60	1674.62
F0	21.83	1580.63
F#0/Gb0	23.12	1491.91
G0	24.50	1408.18
G#0/Ab0	25.96	1329.14
A0	27.50	1254.55

Note	Frequency (Hz)	Wavelength (cm)
A#0/Bb0	29.14	1184.13
B0	30.87	1117.67
C1	32.70	1054.94
C#1/Db1	34.65	995.73
D1	36.71	939.85
D#1/Eb1	38.89	887.10
E1	41.20	837.31
F1	43.65	790.31
F#1/Gb1	46.25	745.96
G1	49.00	704.09
G#1/Ab1	51.91	664.57

Note	Frequency (Hz)	Wavelength (cm)
A#7/Bb7	3729.31	9.25
B7	3951.07	8.73
C8	4186.01	8.24
C#8/Db8	4434.92	7.78
D8	4698.63	7.34
D#8/Eb8	4978.03	6.93
E8	5274.04	6.54
F8	5587.65	6.17
F#8/Gb8	5919.91	5.83
G8	6271.93	5.50
G#8/Ab8	6644.88	5.19
A8	7040.00	4.90
A#8/Bb8	7458.62	4.63
B8	7902.13	4.37



https://en.wikipedia.org/wiki/Musical_note

Power of Alpha and Omega

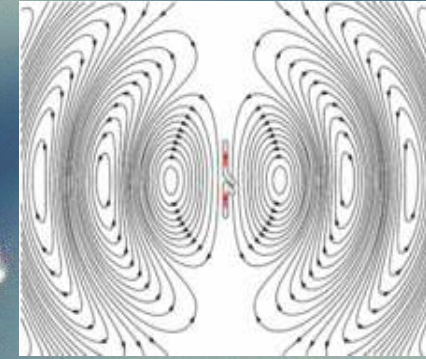
“I am Alpha and Omega, the beginning and the ending, saith the Lord, which is, and which was, and which is to come, the Almighty.” Revelation 1:8.

“And he said unto me, It is done. I am Alpha and Omega, the beginning and the end. I will give unto him that is athirst of the fountain of the water of life freely.” Revelation 21:6.

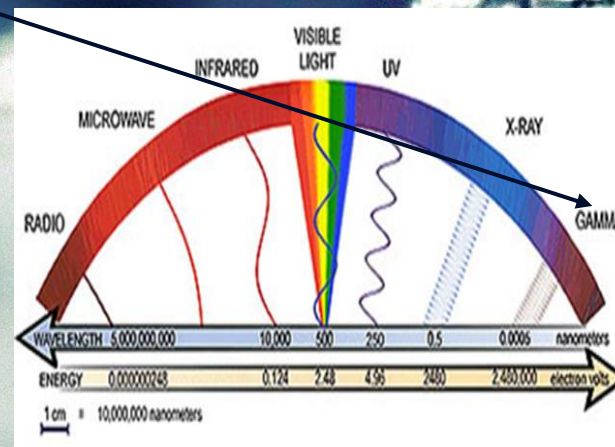
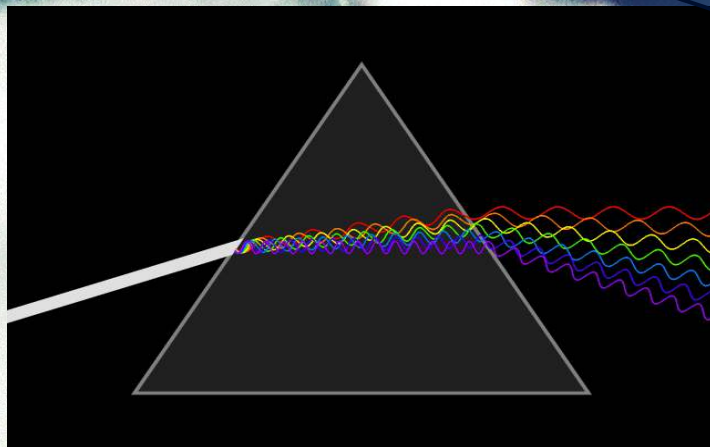
“I am Alpha and Omega, the beginning and the end, the first and the last.” Revelation 22:13.

Alpha and Omega are the first and last letters of the Greek alphabet (24). Gamma is the third letter.

Radio Waves:
Highest Wavelengths
Lowest Energy



“Animation of a half-wave dipole antenna radiating **radio waves**, showing the electric field lines. The antenna in the center is two vertical metal rods connected to a radio transmitter (not shown). The transmitter applies an alternating electric current to the rods, which charges them alternately positive (+) and negative (-). Loops of electric field leave the antenna and travel away at the speed of light; these are the radio waves. In this animation the action is shown slowed down enormously.” [https://en.wikipedia.org/wiki/Antenna_\(radio\)](https://en.wikipedia.org/wiki/Antenna_(radio))



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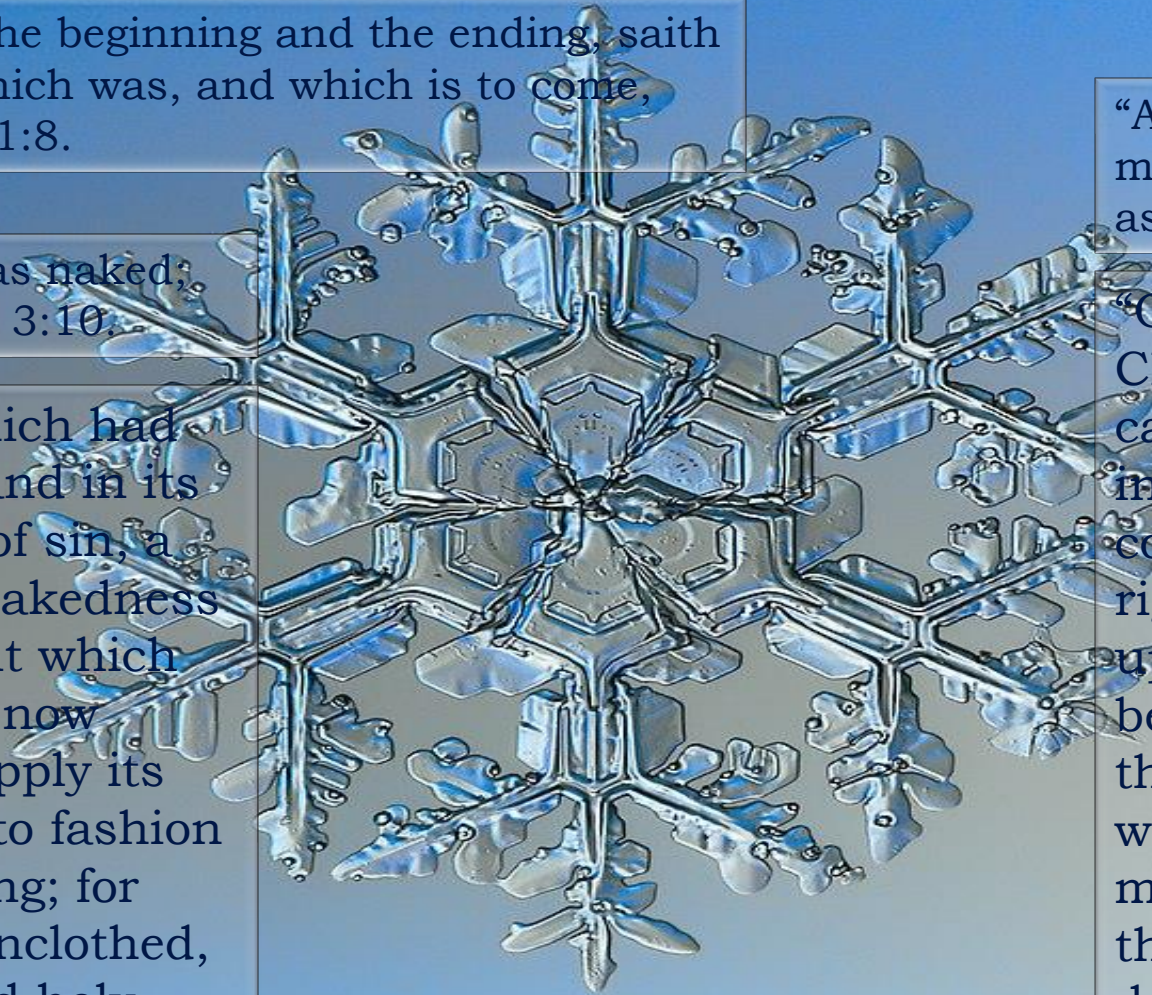
■ Christ our Righteousness

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“I was afraid, because I was naked; and I hid myself.” Genesis 3:10.

“The love and peace which had been theirs was gone, and in its place they felt a sense of sin, a dread of the future, a nakedness of soul. The robe of light which had enshrouded them, now disappeared, and to supply its place they endeavored to fashion for themselves a covering; for they could not, while unclothed, meet the eye of God and holy angels.”

Patriarchs and Prophets, 57.



“And they were both naked, the man and his wife, and were not ashamed.” Genesis 2:25.

“Only the covering which Christ Himself has provided can make us meet to appear in God’s presence. This covering, the robe of His own righteousness, Christ will put upon every repenting, believing soul. “I counsel thee,” He says, “to buy of Me white raiment, that thou mayest be clothed, and that the shame of thy nakedness do not appear.”

Revelation 3:18.”

Christ Object Lessons, 311.

■ Christ our Righteousness

“I am Alpha and Omega, the beginning and the end, the first and the last.” Revelation 22:13

“For now we see through a glass, darkly; but then face to face: now I know in part; but then shall I know even as also I am known.”
1 Corinthians 13:12.

“But we all, with open face beholding as in a glass the glory of the Lord, are changed into the same image from glory to glory, even as by the Spirit of the Lord.”
2 Corinthians 3:18.



“For the Lord himself shall descend from heaven with a shout, with the voice of the archangel, and with the trump of God: and the dead in Christ shall rise first:

Then we which are alive and remain shall be caught up together with them in the clouds, to meet the Lord in the air: and so shall we ever be with the Lord.

Wherefore comfort one another with these words.”
1 Thessalonians 4:16-18.