

Light (Romans 1:20, John 8:12) – Sight: Science & Spiritual Truth

Sunday, August 3, 2025

Sight: Science & Spiritual Truth

For since the creation of the world His invisible attributes are clearly seen, being understood by the things that are made, even His eternal power and Godhead, so that they are without excuse, *Romans 1:20 NKJV*

One Vision – Seeing as God Sees

1. **Light**
2. **Sight**
3. **Vision**

What can we learn about God by studying light?

“Light is at once both obvious & mysterious. Light continues to surprise scientists. Just when you think you have light figured out, it defies your efforts.”

Light = quantized waving of the electromagnetic field

Quantization of EM field

The best known example of quantization is the replacement of the time-dependent linear momentum of a particle by the rule

$$p(t) \rightarrow -i\hbar\nabla.$$

Note that the Planck constant, a introduced here and that the time-dependence of the classical expression is not taken over. In the quantum mechanical context this is then the so-called Schrödinger picture.

For the EM field we do something similar. To quantify it in the Heisenberg picture, which applies here because of the use of creation and annihilation operators, the quantization relations

$$\hat{a}_k^{(+)}(t) \rightarrow \sqrt{\frac{\hbar}{2\omega V \epsilon_0}} a_k^{(+)}(t)$$

$$\hat{a}_k^{(-)}(t) \rightarrow \sqrt{\frac{\hbar}{2\omega V \epsilon_0}} a_k^{(-)}(t)$$

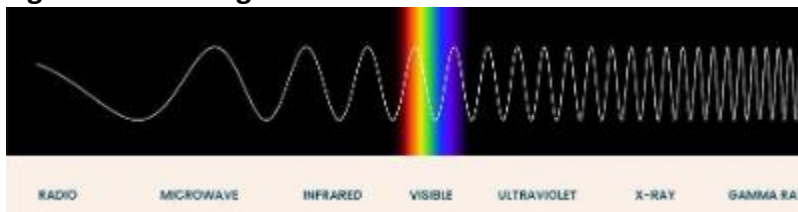
subject to the boson commutation relations

$$[\hat{a}_k^{(+)}(t), \hat{a}_k^{(+)\dagger}(t')] = 0$$

$$[\hat{a}_k^{(-)}(t), \hat{a}_k^{(-)\dagger}(t')] = 0$$

$$[\hat{a}_k^{(+)}(t), \hat{a}_{k'}^{(-)\dagger}(t')] = \delta_{kk'} \delta_{t-t'}$$

Light = electromagnetic radiation



Jesus is the Light

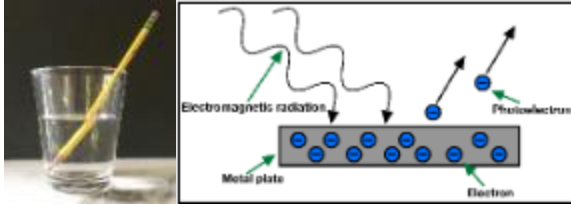
...I am the light of the world. He who follows Me shall not walk in darkness, but have the light of life.
John 8:12 NKJV

“Light is at once both obvious & mysterious. Light continues to surprise scientists. Just when you think you have light figured out, it defies your efforts.”

“God is at once both obvious & mysterious. God continues to surprise scientists. Just when you think you have God figured out, He defies your efforts.”

Light = wave-particle duality



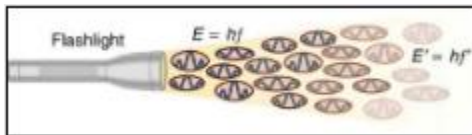


Jesus has two natures (God & human)

In the beginning was the Word, and the Word was with God, and the Word was God. *John 1:1 NKJV*

And the Word became flesh and dwelt among us, and we beheld His glory, the glory as of the only begotten of the Father, full of grace and truth. *John 1:14 NKJV*

Light = carries energy

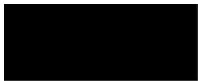


Jesus carries the life of God to us

In Him was life, and the life was the light of men... That was the true Light which gives light to every man coming into the world. *John 1:4, 9 NKJV*

For it is the God who commanded light to shine out of darkness, who has shone 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 NKJV*

Darkness = absence of light



Spiritual darkness is absence of Jesus

I have come as a light into the world, that whoever believes in Me should not abide in darkness. *John 12:46 NKJV*

The LORD is my light and my salvation; Whom shall I fear?... *Psalm 27:1 NKJV*



This Week's OWNit365 New Testament Plus Plan:

Aug 3 - Luke 22, Family Focus – Luke 22:39-46

Aug 4 – Isa 56, Family Focus – Isa 56:7

Aug 5 - Reflection & Prayer

Aug 6– Luke 23, Family Focus – Luke 23:39-43

Aug 7– Luke 24, Family Focus – Luke 24:33-58

Aug 8 – Acts 1, Family Focus – Acts 1:1-11

Aug 9 - Acts 2, Family Focus – Acts 2:41-47

August 3

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NURSERY

GOD SEES US

Memory Verse: “God Sees Us. Job 31:4 (adapted for toddlers)

Heart of the Lesson: I'm So Thankful that God Sees Us

Parent Connect: Today we learned that God sees us! In the story of Jonah, we learned that God still saw Jonah even in the belly of a fish. Find a toy fish or person and take turns “hiding” it around the house this week. Everytime you find it, remind your toddler that God sees us no matter where we are!

GKJR

HEROES OF FAITH

Memory Verse: “God is our refuge and strength, always ready to help in times of trouble.” Psalm 46:1

Heart of the Lesson: Follow God's Call

Parent Connect: Today we learned about Abraham and Sarah, and how God called them to follow His call. Abraham was called to go to a new land, and was told by God that his descendants would be as many as the stars. Walk tonight after dark and point out stars and talk about how many people are in this world and how God loves each of us.

ELEMENTARY

SIGHT

SEEING SCIENCE THROUGH GOD'S EYES



Our heart is for kids to know you can believe in Jesus AND love science. God's Creation is His picture book to better understand spiritual things including who He is. In this series we will see how light pictures Jesus and how eyesight teaches us about how to spiritually see.

Memory Verse: For ever since the world was created, people have seen the earth and sky. Through everything God made, they can clearly see his invisible qualities—his eternal power and divine nature. So they have no excuse for not knowing God. Romans 1:20

Heart of the Lesson: Jesus is Light

Parent Connect: D We need light in order to see in the darkness! In the same way, we need Jesus, the ultimate light, to see our sin, the ultimate darkness. Get together in a bedroom or closet as a family and turn out all the lights, make it as dark as possible. Explain that this is what our lives look like without Jesus. Then, turn on a flashlight or glow stick or lantern and demonstrate how the light brings everything out of darkness. Light defeats dark, and Jesus defeated our sin.

G56

SCIENCE & TRUTH

Science helps us understand the world God made, but it also points us to something even greater: spiritual truths about who God is and who we are. We will explore these truths by looking at light; we'll discover how light shows the glory of God as we engage with light in scripture, sight; we will learn how our eyes see the glory of God through in His creation and in spiritual matters, and vision; we will learn how our vision is interpreting what

we see and that our spiritual vision should reflect the glory of God. Seeing the world through God's eyes is what One Vision is all about. It helps us focus on what matters most to Him.

Memory Verse: "For ever since the world was created, people have seen the earth and sky. Through everything God made, they can clearly see his invisible qualities—his eternal power and divine nature. So they have no excuse for not knowing God." Romans 1:20

Heart of the Lesson: Light reflects the glory of God 1 John 1:5, John 8:12, 2 Corinthians 4:6, John 12:46, Psalm 27:1, John 3:19, John 1:4, 9

Parent Connect: Today we talked about physical light and how it is a picture of Jesus, the light of the world. At home, try doing a simple activity in the dark – like folding laundry, a small puzzle, or finding an object in a bag. Then, do the same activity using a flashlight or with the light on. Talk about how much easier it is to see and do things when there's light. In the same way, Jesus helps us see what's true and shows us how to live.