

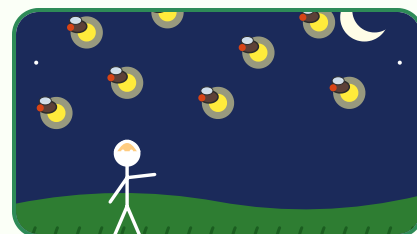
Amazed by God's Creation! ASK DIGGER DOUG · DESIGN IN ANIMALS

How Do Fireflies Glow?

Question: Dear Digger Doug,
How do fireflies glow?

Answer: Dear Sisi & Katie,

Fireflies are one of the coolest parts of summertime because they are insects that glow! This is because of something called bioluminescence (bye-oh-LOO-mih-NESS-ents). Bioluminescence is the ability of a living thing to make its own light through chemical reactions. In fireflies, the light is produced through a chemical reaction between oxygen and other special chemicals. When the oxygen is used inside the firefly's body to react with the other chemicals, it produces light as a product of the reaction. Fireflies rest during the day and come out at night to use their light to attract mates. Since it is dark at night, the fireflies can see each other's lights. It's almost as if the lights are love letters sent to attract other fireflies. Fireflies are not the only living things to make light through bioluminescence. Certain kinds of mushrooms, jellyfish, plankton, and bacteria can also make their own light. The existence of such an amazing process like bioluminescence in numerous species of living organisms points to a common, intelligent Designer.



Did You Know?

(quoted from the article)

Night flyers "Fireflies rest during the day and come out at night to use their light to attract mates."

Not just fireflies "Certain kinds of mushrooms, jellyfish, plankton, and bacteria can also make their own light."

"How Do Fireflies Glow?" by Digger Doug, *Discovery* Vol. 37 #7. [Apologetics Press, apologeticspress.org](https://apologeticspress.org/apologeticspress.org) — <https://apologeticspress.org/how-do-fireflies-glow/>

Evidence Detective ASK DIGGER DOUG · WHO IS GOD?

Who Made God?



Dear Sallie,

I know this might sound a little strange, but God wasn't created. He always has been. The Bible teaches that God is eternal. The scripture speaks of "the eternal God" (Deuteronomy 33:27) who's "years will have no end" (Psalm 102:27). He is "from everlasting to everlasting" (Psalm 90:2). In other words, He had no beginning and he will have no ending. God is not dependent upon anything or anyone outside Himself for his own existence. I know it is difficult to understand God's eternal nature, because everything that we see around us has a beginning

and ending. God, however, has neither. Isn't it great to know that God exists and that we always can count on Him to be there for us?

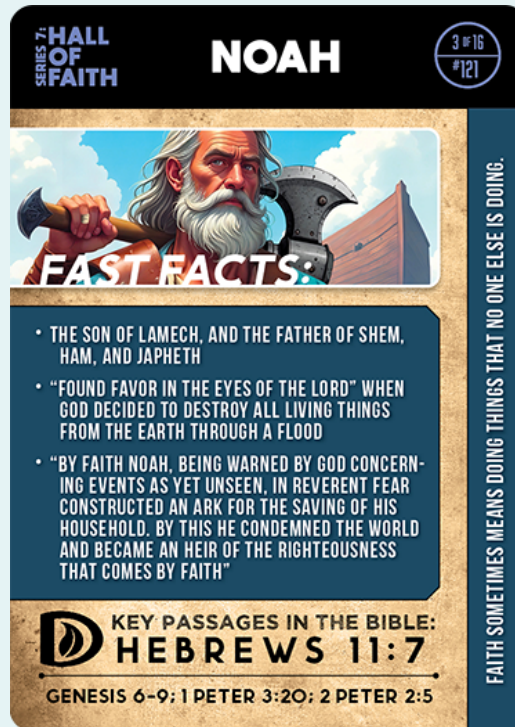
"Who Made God?" by Digger Doug, *Discovery* 6/1/2001. [Apologetics Press, apologeticspress.org](https://apologeticspress.org/apologeticspress.org) — <https://apologeticspress.org/who-made-god-4922/>

Bible Card of the Week

DISCOVERY BIBLE CARDS • CARD 121



Front



Back

Noah

HALL OF FAITH SERIES

Read the back! Then open your Bible and find the Key Passage on the card: **Hebrews 11:7.**

Can you find Noah in this week's comic on page 3?

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Where in the Bible World? FIND IT ON THE MAP!



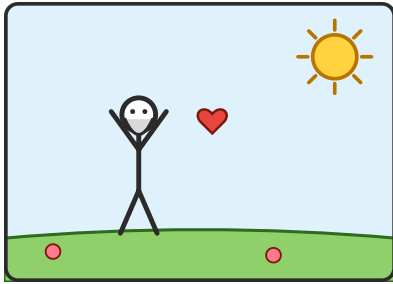
“Then the ark rested in the seventh month, the seventeenth day of the month, on the mountains of Ararat.” **Genesis 8:4**

1. Put your finger on the big ★. That is where the Bible says the ark rested: the mountains of Ararat.
2. Now find the **Great Sea**, the **Red Sea**, and the **Euphrates River**. Trace the river with blue.

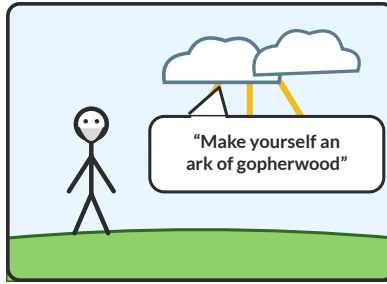
The Bible says “the mountains of Ararat” (a mountain region), not one peak. The star marks the traditional site, Mount Ararat (Ağrı Dağı) in eastern Türkiye; the exact resting place is not known. Simple drawing — not to scale.

Bible Comic: Noah Obey's God

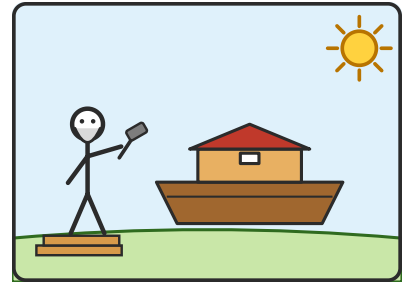
GENESIS 6-9



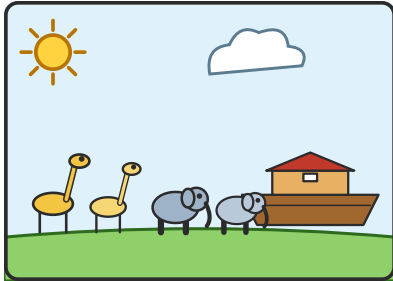
1 Noah loved God. "Noah walked with God." **Genesis 6:9**



2 God told Noah to build a big boat: "Make yourself an ark of gopherwood" **Genesis 6:14**



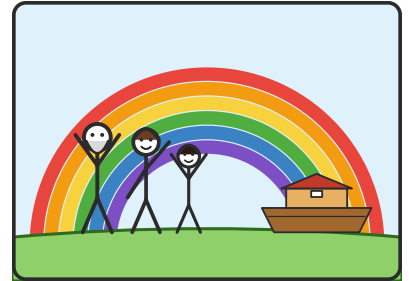
3 Noah worked hard. He did just what God said! **Genesis 6:22**



4 The animals came: "two by two they went into the ark to Noah" **Genesis 7:9**



5 "And the rain was on the earth forty days and forty nights." God kept Noah's family safe in the ark. **Genesis 7:12; 8:1**



6 God made a promise: "I set My rainbow in the cloud" **Genesis 9:13**

Quotations: New King James Version (NKJV). Read the whole account in your Bible: Genesis 6-9.

Memory Verse

GENESIS 6:22 (NKJV)

"Thus Noah _____; according to all that God _____ him, so he did."

Genesis 6:22

Word bank: **commanded** **did**

Good Guy or Bad Guy?

LOOK IT UP!

Look up the verse. Did this person follow God? Circle the thumbs-up for YES or the thumbs-down for NO.



Noah

Genesis 6:9
Find the words
"walked with God."



The people in Noah's day

Genesis 6:5
Find the word
"wickedness."



David

1 Samuel 17:45
Find "in the name of the LORD."



Goliath the Philistine

1 Samuel 17:10
Find "I defy the armies of Israel."



Elijah

1 Kings 18:36
Find "I am Your servant."



King Ahab

1 Kings 16:30
Find "did evil."



Bible Matching Game WHO HAD IT?

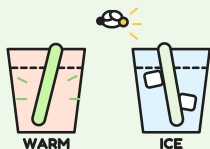
Draw a line from each Bible person to the thing in their story. Not sure? Look up the verse in your Bible!

 Noah Genesis 7:1	●	●  A the rod of God
 Joseph Genesis 37:3	●	●  B the den of lions
 Moses Exodus 4:20	●	●  C the ark
 David 1 Samuel 17:50	●	●  D a tunic of many colors
 Daniel Daniel 6:16	●	●  E a great fish
 Jonah Jonah 1:17	●	●  F a sling and a stone

Made in Six STEM Lab: Try It at Home Science: Glow Sticks vs. Fireflies

You need

- 2 glow sticks, same color
- 2 clear cups
- warm tap water (not hot!)
- ice water
- a dark room



Try it!

1. Fill one cup with warm tap water and one cup with ice water.
2. A grown-up bends each glow stick until it snaps inside, then shakes it.
3. Put one stick in each cup. Wait 3 minutes.
4. Turn off the lights. Which one is brighter?
5. Check again in an hour and at bedtime. Which one glows longer?

What happened?

Snap! Two liquids inside the stick mix, and their chemical reaction makes light without heat: **cold light** (scientists say *chemiluminescence*). Warm water speeds the reaction up: brighter, but it fades sooner. Ice water slows it down: dimmer, but it lasts longer.

God's Design

Page 1 says: "In fireflies, the light is produced through a chemical reaction between oxygen and other special chemicals." People need a man-made stick to make cold light. God designed tiny fireflies to make it all by themselves!

"O LORD, how manifold are Your works! In wisdom You have made them all."
Psalm 104:24

⚠ **Grown-up helper needed.** Never cut, bite, or break open a glow stick: the liquid can sting eyes and skin. Warm tap water only, never hot. Throw away a cracked or leaky stick and wash with soap and water.

Science checked with: American Chemical Society (acs.org) · University of Washington Chemistry · safety: Poison Control (poison.org) (full list in the teacher key).

Word Search

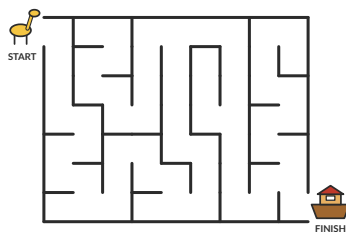
ACROSS → DOWN ↓

H	W	F	L	H	M	Q	F	W
P	K	I	I	K	Q	C	Q	C
V	B	R	G	X	K	K	D	B
D	Q	E	H	A	R	K	X	H
F	Y	F	T	M	G	L	O	W
T	Y	L	Y	O	B	E	Y	G
J	H	Y	N	O	A	H	C	O
B	R	A	I	N	B	O	W	D
Z	Q	V	Q	P	Q	H	W	Y

NOAH
ARK
OBEY
GOD
RAINBOW
GLOW
LIGHT
FIREFLY

Maze

Help the giraffe find the way to the ark!



Talk with your family: Noah did all that God commanded him. What is one thing God wants you to do this week?

Come back Wednesday at 7:00 PM and next Sunday at 10:00 AM for Bible class!