

Questions for Lesson 5: Design in the Creation (Part 2)

1. Why is it useful to look for order and design in nature?

Answer: If we can prove that there is design in the creation, it logically follows that there must be a designer.

2. What biblical comment is given on this point?

Answer: That “we can know there is a God through the things he has made” (Romans 1:19ff; Psalm 19; Isaiah 40; Job 38, etc.).

3. What is polarized light?

Answer: Light has a plane in which the light waves vibrate, it is two dimensional. Reflecting or passing light through crystals with grains that block all but one plane allow the light to be a beam. A 3-D movie has crystals in which one lens is 90 degrees from the other. This allows separate image to be passed into each eye giving an illusion of depth.

4. How do animals use polarized light

Answer: To locate bodies of water or to locate the Sun or Moon. The turtle locates nearby water, but many birds use polarized light for migration.

5. Can radio waves be polarized?

Answer: Yes, they are just longer waves than light. Rotating your radio can change the strength of your signal. Xrays, Gamma Rays, Infra-red and ultraviolet light can also be polarized.

6. What is a Fibonacci series?

Answer: A number when added to the next number in the series gives the third number. For example $1+2=3$; $2+3=5$; $3+5=8$; $5+8=13$; $8+13=21$; $13+21=34$; etc., so the series would be 1, 2, 3, 5, 8, 13, 21, 34, etc.

7. How does this produce geometric shapes?

Answer: Spirals and rectangles use these numbers and ratios to get their shapes. The equation for Fibonacci spirals is $x^2 - s = a$ number. There is a more complete explanation of this and also references in our *Dandy Designs: Volume 1*, pages 15-18.

8. Why does this ratio suggest intelligent design?

Answer: It offers no survival value to animals and is not stronger than other shapes. There is no chance explanation that works.

9. So does this mean that we use a god-of-the-gaps argument and say that since we do not know why it works, we invent a god to explain it?

Answer: No. There is the positive argument that this phenomena exists because of the aesthetic beauty that it provides. The idea is that beauty and creativity does not come from chance.

10. List some other areas like this Fibonacci ratio that could have similar arguments made for their being a product of design.

- Answer:**
- a) Color in caves and cave creatures.
 - b) Colors in space.
 - c) Texture differences in materials.
 - d) Colors in animals and insects that are color blind.

These are all examples of things that do not offer survival value, but provide great beauty for humans to enjoy.