

Biomimicry - Questions

1. Put the following in order of size largest to smallest: Kilo, Giga and Mega
2. Put the following in size order from smallest to largest: micro, milli and nano
3. Write the equation which links Actual size, Image size and Magnification
4. What type of microscope do we use in class?
5. Which type of microscope has the highest resolution and magnification?
6. What is the term for the measure of how clear an image is?
7. What is the term for the measure of how much larger or smaller an image is?
8. What is the name for the lens directed at the sample?
9. What is the term for living things giving out light (glowing)?
10. What is the name for how heat travels in a solid?
11. What is the name for how heat travels in a fluid?
12. What is the name for how heat travels through a vacuum?
13. What is the name for the separation technique that is used to purify water?
14. What is the word for when a liquid becomes a gas?
15. What is the term for when a gas becomes a liquid?
16. What is the name for the type of cell(s) which carry electrical impulses around the body?
17. What is the name of the process plants use to produce glucose?
18. What are the 2 reactants in photosynthesis?
19. What are the 2 products of photosynthesis?
20. What is the separation technique used to separate pigments?
21. What is the value scientists calculate to define different pigments?
22. When you have 2 sets of continuous data should you draw a scatterplot or a bar graph?
23. Write 1400000 in standard form
24. Write 3.2×10^4 as an ordinary number
25. When you have a set of categoric data and continuous should you draw a scatterplot or a bar graph?
26. Which type of average is the “standard” average we use in science?
27. What is the term for the design and production of materials and structures that are modelled on living things?

Biomimicry - Answers

1. Giga, Mega, Kilo
2. nano, micro, milli
3. Magnification = Image size $\div$ Actual size
4. A light microscope
5. Electron microscope
6. Resolution
7. Magnification
8. Objective lens
9. Bioluminescence
10. Conduction
11. Convection
12. Radiation
13. Distillation
14. Evaporation (accept boiling)
15. Condensation (accept condensing)
16. Nerve cells (accept neurone)
17. Photosynthesis
18. Carbon dioxide and water
19. Glucose and oxygen
20. Chromatography
21. Rf Value
22. Scatter plot
23. 1.4×10^6
24. 32000
25. Bar graph
26. Mean average
27. Biomimicry