

7th Grade Biology

Worksheet

Name: _____

Date: _____

Answer the questions by choosing the correct option!

1. If a plant cell has 15 chloroplasts, and each chloroplast can capture 20 photons of light energy, how many photons can the cell capture in total?
 - a) 200
 - b) 300
 - c) 400
 - d) 3000
2. In an ecosystem, there are 8 species of plants, and each species supports 12 species of insects. How many insect species are there in total?
 - a) 48
 - b) 96
 - c) 120
 - d) 192
3. A scientist observes 25 bacteria in a petri dish. Each bacterium divides into 2 every hour. How many bacteria will be present after 3 hours?
 - a) 50
 - b) 100
 - c) 200
 - d) 400
4. A DNA strand consists of 1,000 nucleotides, and 4 types repeat in equal proportions. How many nucleotides of each type are there?
 - a) 100
 - b) 250
 - c) 400
 - d) 500
5. A food chain consists of 5 trophic levels, and each level transfers only 10% of energy to the next. If the producer level has 10,000 calories, how many calories reach the top predator?
 - a) 100
 - b) 50
 - c) 10
 - d) 1000
6. There are 6 students, and each student plants 15 seeds in the school garden. How many seeds are planted in total?
 - a) 45
 - b) 60
 - c) 75
 - d) 90