Answer Key

Directed Reading A

SECTION: THE ROCK CYCLE

1. B
2. C
3. building materials
4. weathering
5. sediment
6. erosion
7. deposition
8. minerals
9. uplift
10. surface
11. C
12. E
13. A
14. B
15. D
16. C
17. A
18. A
19. D
20. C
21. A
22. D
23. A

SECTION: IGNEOUS ROCK

1. B
2. A
3. the composition of the magma and the amount of time the magma takes to cool
4. magma
5. when rock is heated, when pressure is released, or when rock changes composition
6. temperature, pressure, and composition
7. Rather than solidifying at one exact temperature, magma cools at various temperatures, depending on its composition, because different minerals melt at different temperatures. Magma can be made up of various minerals in different mixtures. Some minerals within the magma will only solidify at low temperatures while other minerals will begin to solidify earlier when the temperature is still quite high.
8. dense
9. felsic
10. mafic
11. mineral crystals, coarse
12. finer
13. A
14. C
15. D
16. B
17. intrudes
18. coarsegrained
19. extrusive igneous rock
20. fissures
21. ocean floor
22. lava plateau

SECTION: SEDIMENTARY ROCK

1. sandstone
2. sedimentary rock
3. cement
4. surface
5. strata
6. clasts
7. clastic
8. texture
9. chemical
10. organic
11. coral, reefs
12. fossiliferous
13. coal
14. C
15. A
16. D

SECTION: METAMORPHIC ROCK

1. A
2. C
3. B
4. solid
5. mineral grains
6. contact metamorphosis
7. distance, temperature
8. regional metamorphosis
9. crust
10. B
11. C
12. D
13. C
14. A
15. D
16. F
17. C
18. A
19. E
20. B
21. D
22. A

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