

Summer Assignment – Marine Science Honors

Read “Meg: A Novel of Deep Terror” by Steve Alten.

ISBN: 9781599551692

There are several books in this series. Please be sure to get the correct one. Here is a link to information about the book. <http://www.stevealten.com/meg.htm> You will have a quiz on your summer work upon returning from the break.

KNOW the following terms (but they don't need to be turned in):

| | |
|--------------------------|---------------------------|
| 1. Carcharodon Megalodon | 41. hypothermia |
| 2. Tube worms (Riftia) | 42. furtively |
| 3. Hyperventilating | 43. gigantothermy |
| 4. claustrophobia | 44. metabolic rates |
| 5. vertigo | 45. peripheral tissues |
| 6. bathyscaphes | 46. thermocline |
| 7. Coelacanth | 47. perimeter |
| 8. Black smokers | 48. advocate |
| 9. Cardiac monitor | 49. expedite |
| 10. Digital | 50. disdain |
| 11. Canyon | 51. kindred |
| 12. Spewing | 52. indicator |
| 13. ceramic seals | 53. originating |
| 14. virtually | 54. genetic |
| 15. luciferins | 55. environment |
| 16. luminous | 56. cetacean |
| 17. luminescent | 57. frenzy |
| 18. theorized | 58. whale pods |
| 19. desolate | 59. ecological |
| 20. bizarre | 60. hemisphere |
| 21. genera | 61. juncture |
| 22. alloy | 62. fluke |
| 23. seamounts | 63. rendezvous |
| 24. submerged | 64. carte blanche |
| 25. hallucination | 65. decommissioned |
| 26. paleontologist | 66. ingenuity |
| 27. massive | 67. dispersed |
| 28. mesmerized | 68. plummeted |
| 29. adrenaline | 69. giddy |
| 30. torso | 70. listing |
| 31. pectoral fins | 71. dirigible |
| 32. spasms | 72. decimated |
| 33. cascading | 73. circumnavigate |
| 34. hyperextended | 74. esophagus |
| 35. insatiable | 75. discernible |
| 36. ascend | 76. primeval |
| 37. jettison | 77. conical |
| 38. groped | 78. mantra |
| 39. periphery | 79. bends |
| 40. bombarding | 80. recompression chamber |

Acronyms:

UNIS JAMSTEC AG I & AG II

ACRONYMS & VESSELS

Ships:

Seacliff Kiku Magnate HMS Challenger USS Nautilus Tsunami

CHRONOLOGICAL EVENTS

1. The T-Rex stalked its prey into the sea and became the victim of _____.
2. Professor Jonas Taylor lectures in The Scripps Institute about _____.
3. Maggie Taylor earned the Golden Eagle for her work about _____.
4. UNIS submersibles had been deployed along a 125 mile stretch of the Mariana Trench to _____.
5. Masao Tanaka's dream project was a sanctuary for _____.
6. The small cockpit of the Beechcraft bothers Jonas because he suffers from _____.
7. Maggie Taylor pays _____, a reporter to follow Jonas and make him look bad.
8. Terry wants to be the submersible pilot to go with D.J. to _____.
9. In the Mariana Trench seven years earlier, Jonas thought he saw a _____ and rocketed toward the surface.
10. The name of Masao's ship is the _____.
11. Jonas knew Frank Heller from his days in the _____.
12. The Abyss Gliders can fly to the bottom at a rate of _____.
13. Jonas didn't eat his dinner the night before the dive into the deep because _____.
14. The warm layer of the canyon is heated by _____.
15. The MEG's color is easy to see in the deep dark because it _____.
16. The male MEG was trapped by _____ and killed by _____.
17. After D. J.'s catastrophe, Jonas made it to the top in the _____.
18. Maggie rushes to Guam to _____.
19. Jonas tells Terry the female shark could be on the surface because _____.
20. Jonas meets _____ in Saipan.
21. In Saipan, Jonas sees evidence of the female Meg from the carcass of a _____.
22. The first nuclear-powered submarine was the _____.
23. The Cousteau Society wants to _____ the Meg.
24. Mac's helicopter will be used to _____.
25. The Megalodon launched straight out of the sea like an intercontinental ballistic missile to attack _____.
26. List three important differences between the AG I, and the AG II.

27. The surfer Michael Barnes thought he ran into a _____.
28. Jim Richards' surfboard was crushed like a carton of eggs in a trash compactor by _____.
29. The Japanese vessel, *Tsunami* had an illegal catch of eight _____.
30. Frank Heller stretched out his hand but could not save _____.
31. Maggie Taylor took her expedition to the _____ Islands.
32. The stench surrounding the *Magnate* came from _____.

33. The female MEG gave birth to _____ male pup(s), and _____ female pup(s).
34. One male MEG pup died when _____.
35. Maggie Taylor's experience with the Meg ended with _____.
36. Jonas learns that David Adashek is a reporter for the same network as _____.
37. Another male Meg pup died when _____.
38. The adult female Meg is no longer limited to surfacing at night after she becomes _____.
39. The passengers on Captain Jack's Whale Watcher watch horrified as a whale _____.
40. The large dosage of pentobarbital and ketamine shut down the Meg's _____.
41. On-board the AG-I, Jonas uses the retractable arm of the mini-sub to _____.
42. In checking the hull of the *Kiku*, Jonas discovers _____.
43. Frank Heller, Dick Danielson, and Bud Harris anchor the *Magnate* near the Tanaka Lagoon in order to _____.
44. When Mac smilingly yells, "Mac Attack!", he is _____.
45. During the chaos just outside the Tanaka Lagoon, Masao Tanaka suffers a _____.
46. David Adashek gets the helicopter to land on the *Kiku* by _____.
47. What happened to the hordes of pleasure boaters who got too close to the action?
_____.
48. What wakes up the Meg? _____.
49. When the eight news helicopters realize how massive the Megalodon actually is, they panic and _____.
50. Jonas saves Terry's life when he _____.
51. The chapter, "The Gates of Hell," refers to _____.
52. Jonas uses the fossilized black tooth to _____.
53. Jonas leaves the escape pod to _____.
54. When the escape pod gets trapped, Jonas has to _____.
55. _____ pulls Jonas out of the water.
56. Because the paleontologist rose to the surface too quickly, he gets a serious case of _____.
57. Jonas realizes that the white glowing shark the *Manitou* captured is really a _____.

Major Characters:

Prof. Jonas Taylor: Terry Tanaka: Mac Masao Tanaka: Maggie Taylor: Bud Harris:
Dr. Frank Heller:

CHARACTERS

Minor Characters:

D. J. Tanaka: Richard Danielson David Adashek Alphonse DeMarco Capt. Leon Barre Phillippe
Commander McGovern Andre` Dupont Dr. Tsukamoto Dr. Simidu Fred Henderson Harold Ray
Dennis Heller

Articles to read online, and write a paragraph summary on each.

Aquaculture of Corals

http://en.wikipedia.org/wiki/Aquaculture_of_coral

What are the natural threats to coral reefs worldwide?

What are some anthropogenic threats to corals?

How do corals reproduce?

Mariana Trench: James Cameron

<http://rt.com/news/mariana-trench-james-cameron-first-video-608/>

<http://aquarius.uncw.edu/about/overview>

[NASA Space Simulation and Training Project: NEEMO 16](#)

Principal Investigator: Bill Todd, NASA/USRA

Training: June 4 - 8

Saturation: June 11 - 22

JOIDES Resolution

<http://joidesresolution.org/>

Know what JOIDES is, and what the purpose is.

Algalita

<http://www.algalita.org/index.php>

Know what ALGALITA is, and what the purpose is.