2010 Colorado Science Olympiad Fossils **Team Name: _____**

Team #: _____

Names of students:

_____

_____

Directions: Make sure you record what is being asked for. Answer the multiple choice questions by placing the letter of the correct choice in the space provided. Some stations require you to fill in your answers in the space provided. Be careful, spelling counts, and you must write legibly. Please print. [* indicates tie-breaker question]

Station 1:

1. _____

2. _____

*3. _____

Station 2:

4._____

5._____

6. [put the letter of the daughter isotope on the blank]

___ Carbon-14
___ Potassium-40
___ Rubidium-87
___ Thorium-232
___ Uranium-235
___ Uranium 238

7._____

8._____

Station 3:

*9. **Geologic Age Range of Fossils-** Plot the geologic range of the fossils in question 9 on this chart. Use arrows or shading to indicate the range for each fossil.

ERA	GEOLOGIC PERIOD	*Fossil A*	*Fossil B*	*Fossil C*	*Fossil D*	*Fossil E*
CENOZOIC	**Recent** (1.6-0 my)					
	Tertiary (65 -1.6 my)					
MESOZOIC	**Cretaceous** (142-65 my)					
	Jurassic (206-142 my)					
	Triassic (251-206 my)					
PALEOZOIC	**Permian** (290-206 my)					
	Carboniferous (363-290 my)					
	Devonian (418-362)					
	Silurian (443-418 my)					
	Ordovician (490-443 my)					
	Cambrian (544-490 my)					

10. _____

11. _____

12. _____

*13. 1) _____
2) _____
3) _____
4) _____
5) _____

Station 4:

14. _____

*15. _____

16. _____

17. _____

Station 5:

18. _____

19. _____

20. _____

21. _____

22. _____

Station 6:

23._____

24. _____

25. _____

26. _____

27. Specimen E-_____
Specimen F-_____

28. _____
_____
_____
_____

Station 7:

29. _____

30. _____

31. _____

32. _____

33. A) _____
    B) _____

Station 8:

*****34. _____

35. _____

36. _____

37. _____

38. _____

39. _____

40. _____

Station 9:

*****41. _____

42. _____
    _____

Station 10:

43. _____

*44. _____

45. _____

46. _____

47. _____

Station 11:

48. _____

49. _____

50. _____

51. _____

52. A) _____
B) _____

Station 12:

53._____

54. _____

55. _____

56. _____
_____
_____
_____
_____
_____

Station 13:

57. _____

58. _____

*59. _____

60. _____

Station 14:

61. _____

62. _____

63. _____

64. _____

65. _____

66. _____

67. _____
_____
_____

68. _____