

Name: _____
First Name Last Name

Name: _____
First Name Last Name

School: _____ Team Number: _____
Full School Name, No Abbreviations

DYNAMIC PLANET

TECTONICS

Pembroke Hill Invitational

January 6, 2018

ANSWER SHEET

FOR EVENT SUPERVISOR USE

TEST TIMING	SECTION SCORES	ADDITIONAL SCORING	FINAL SCORE
Start Time: ____:____	Section 1: _____	Raw Score: _____ (sum of sections)	<div style="border: 2px solid black; width: 100%; height: 100%;"></div> <p style="text-align: center;"><i>Total points: 75</i></p>
End Time: ____:____	Section 2: _____ (TB4)	Deductions: _____ (subtract from raw)	
Total Time: _____ min.	Section 3: _____ (TB3)	Tiebreaker: _____ (add 0.1 if won)	
Maximum allowed: <i>50 minutes</i>	Section 4: _____ (TB1)	<i>Tiebreakers (TB) are section scores as noted to the left.</i>	
	Section 5: _____		
	Section 6: _____ (TB2)		

INSTRUCTIONS

- Clearly write your name(s) and school on the top of this sheet.
- Mark ALL responses within this Answer Sheet. No responses marked within the Exam Booklet will be scored.
- Make sure all answers are legible. An illegible response will be scored as an incorrect response. For single letter answers, use capital letters (*A* not *a*) to mark your responses.
- Points will **not** be deducted for minor spelling errors. If spelling is so far off as to impair the judge's understanding of what is written, the response will be counted as incorrect.
- Feel free to split the Answer Sheet and Exam Booklet if necessary, but be sure all pages are stapled together before the exam is turned in.
- Have fun, enjoy the exam, and rock on!

Exam by:
Jeffrey Rubel (Pembroke Hill '13, Williams College '17)

SECTION 1
GEOLOGIC TIMELINE

- 1. _____
- 2. _____
- 3. _____

- 4. _____
- 5. _____

SECTION 1 SCORE

1 point per question
5 points possible

SECTION 2
QUANTITATIVE REASONING

- 1. _____
- 2. _____
- 3. _____

- 4. _____
- 5. _____

SECTION 2 SCORE

1 point per question
5 points possible

SECTION 3
DEFINITIONS

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____

- 9. _____
- 10. _____
- 11. _____
- 12. _____
- 13. _____
- 14. _____
- 15. _____

SECTION 3 SCORE

1 point per question
15 points possible

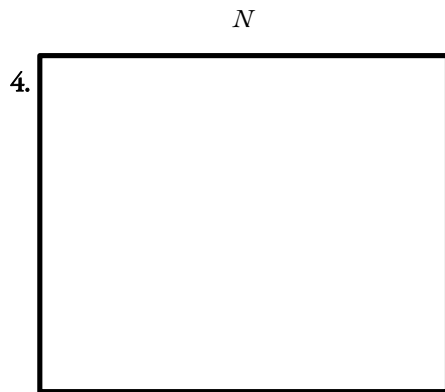
SECTION 4
MULTIPLE CHOICE

- | | | | | |
|----------|-----------|-----------|-----------|-----------|
| 1. _____ | 6. _____ | 11. _____ | 16. _____ | 21. _____ |
| 2. _____ | 7. _____ | 12. _____ | 17. _____ | 22. _____ |
| 3. _____ | 8. _____ | 13. _____ | 18. _____ | 23. _____ |
| 4. _____ | 9. _____ | 14. _____ | 19. _____ | 24. _____ |
| 5. _____ | 10. _____ | 15. _____ | 20. _____ | 25. _____ |

SECTION 4 SCORE

*1 point per question
25 points possible*

SECTION 5
DIAGRAM CREATION



5. Feature 5.1: _____
Feature 5.2: _____
Feature 5.3: _____

In order to get the point for Question 5, you must correctly fill in all three blanks. No partial credit.

SECTION 5 SCORE

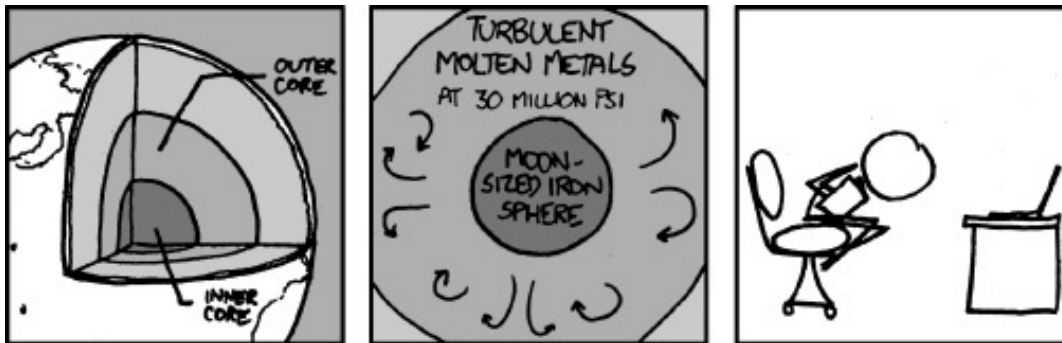
*1 point per question
5 points possible*

**SECTION 6
CASE STUDIES**

- | | | | |
|----------|-----------|-----------|-----------|
| 1. _____ | 6. _____ | 11. _____ | 16. _____ |
| 2. _____ | 7. _____ | 12. _____ | 17. _____ |
| 3. _____ | 8. _____ | 13. _____ | 18. _____ |
| 4. _____ | 9. _____ | 14. _____ | 19. _____ |
| 5. _____ | 10. _____ | 15. _____ | 20. _____ |

SECTION 6 SCORE

*1 point per question
20 points possible*



I FREAK OUT ABOUT FIFTEEN MINUTES INTO
READING ANYTHING ABOUT THE EARTH'S CORE
WHEN I SUDDENLY REALIZE IT'S *RIGHT UNDER ME.*