**Holt Invitational 2017 Dynamic Planet**

Answer Sheet

School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Team Color: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Competitor 1:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Competitor 2:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A: Continental Crust (1pt)

B: Oceanic Crust (1pt)

C: Mantle (1pt)

D: Core (1pt)

E: Lithosphere (1pt)

F: Asthenosphere (1pt)

G: Mesosphere (1pt)

H: Outer Core (1pt)

I: Inner Core (1pt)

1. C (2pts)
2. Alfred Wegener (2pts)
3. Sea Floor spreading (2pts)
4. A: Juan de Fuca Plate (1pt)

B: Pacific Plate (1pt)

C: Cocos Plate (1pt)

D: North American Plate (1pt)

E: Caribbean Plate (1pt)

F: Nazca Plate (1pt)

G: South American Plate (1pt)

H: Scotia Plate (1pt)

I: African Plate (1pt)

J: Eurasian Plate (1pt)

K: Arabian Plate (1pt)

L: Indo-Australian Plate (1pt)

M: Philippine Plate (1pt)

N: Antarctic Plate (1pt)

O: Okhotsk Plate (1pt)

1. Divergent (1pt)
2. Convergent (1pt)
3. Transform (1pt)
4. Convection Currents in the mantle (2pts)
5. High viscosity magma would create a stratovolcano (composite volcano) because of the low rate of lava movement. The lava does not move far before it solidifies.(3pts)
6. Low viscosity magma would create a shield volcano. The higher rate of lava movement and flow would cause the lava to flow over large distances before solidifying.(3pts)
7. Erosion and deposition, ice sheets, plate tectonics (1/2pts)
8. Divergent (1pt)
9. 10x (2pts)
10. Continental Crust (2pts)
11. 90% (2pts)
12. Wilson Cycle (2pts)
13. i. 4000 mya(1pt)

ii. 2400 mya (1pt)

iii. 1100 mya (1pt)

iv. 550 mya (1pt)

v. 275 mya (1pt)

vi. 105 mya (1pt)

vii. 65.5 mya (1pt)

viii. 50 mya (1pt)

1. Compressional (1pt)
2. B (1pt)
3. A (1pt)
4. C (1pt)
5. D (1pt)
6. A (1pt)
7. D (1pt)
8. C (1pt)
9. a: Appalachian(1pt)

b: Andes (1pt)

c: Alps (1pt)

d: Cascade (1pt)

e: Ural (1pt)

1. A: Continental Shelf (1pt)

B: Continental Crust (1pt)

C: Continental Slope (1pt)

D: Continental Rise (1pt)

E: Abyssal Plain (1pt)

F: Oceanic Crust (1pt)

1. A: Reverse Fault (1pt)

B: Normal Fault (1pt)

C: Strike Slip Fault (1pt)

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(5pts)

31-33. (12 pts)



1. a. Kaua’I (1pt)

b. O’auhu (1pt)

c. Moloka’I (1pt)

d. Maui (1pt)

e. Hawaii (1pt)

1. Northwest(2pts)