## Grading Checklist Learning Assessment #1 – Plate Tectonics

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Learning assessments are graded using a checklist-style rubric. This checklist is a more detailed, expanded version of the checklist that is provided to students with the assignment. During the review class, graded assignments are returned with the checklist attached.

The purpose of the checklist is to clearly and concisely show students where they lost marks on the assignment and why. When students are reviewing their work they initially focus on the areas they got incorrect as identified on the checklist.

The checklists help to ensure that grading is transparent to the students. They also help maintain consistency amongst graders, which may be a challenge in large courses with multiple instructors/teaching assistants marking the same assignment.

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## Learning Assessment #1 (Plate Tectonics) GRADING CHECKLIST

| PART 1 (Total /40)   | PART 2 (Total /6)   |
|--|---|
| Tectonic plates labelled (4)   | Q1. Evidence of plate boundaries (6)  |
| <ul> <li>Pacific Plate (1)</li> <li>Nazca Plate (1)</li> <li>South American Plate (1)</li> <li>African Plate (1)</li> </ul>  | Evidence for divergent plate boundary is given (i.e. citing reference maps and figures) (x3)  Evidence for convergent boundary is given (i.e. citing/using reference maps and figures) (x3) |
| Tectonic plate direction indicated (4)   |   |
| Pacific Plate (1) Nazca Plate (1)  | BONUS   |
| South American Plate (1)   | Волов   |
| African Plate (1)  | Q2. What would happen if (2)  |
| Crust, mantle, lithosphere (14)  continental crust drawn where appropriate (x2) oceanic crust drawn where appropriate (x4) relative thicknesses of crust are properly drawn at both locations (X2) lithospheric mantle indicated (x4) asthenosphere indicated (x2) | Description/explanation of what would happen to oceanic crust in the Atlantic, and why Description/explanation of what would happen to continents, and why                                  |
|  | TOTAL (/46):  |
| Plate Geometries (3)   |   |
| tectonic plates are drawn with correct angles (x2)   |   |
| subduction zone labelled (1)   |   |
| Ocean features (3) trench(es) are identified (1) mid-ocean ridge(s) are identified (x2)  | Comments  |
| Earthquakes (4) earthquake activity is labelled in all appropriate locations   |   |
| <ul> <li>at mid ocean ridges (0.5 each = 1)</li> <li>along subducting plate (x2)</li> <li>around volcanic arc (1)</li> </ul>   |   |
| Volcanoes (7)  all areas of melting are properly indicated (x3)  volcanic arc is labelled (1)  all areas of volcanic activity labelled (x3)  |   |