**Initial Task:** Using the provided description of planet Delta, explain the process of formation, early history, and the placement in the solar system. Make sure to reference ***all four*** major types of evidence discussed in this unit within your explanation of the planet:

(1) impact crater presence/abundance

(2) plate tectonics/erosion

(3) composition

(4) radiometric dating

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Planet Name** | **Impact Craters** | **Surface Processes** | **Composition of Planet** | **Radiometric Data** |
| **Delta** | No evidence of impact craters exists on the surface of this planet.  | This planet has little to no atmosphere but does exhibit signs of volcanic activity.  | This planet has a solid surface.  | Labeled on graph below as “D.”Age in millions of years = \_\_\_\_\_\_ |



Student Answer Sheet

Planet Delta: Explain the process of formation and the placement in the solar system using the following pieces of evidence.

Checklist:

     (1) impact crater presence/abundance

     (2) plate tectonics/erosion

     (3) composition

     (4) radiometric dating

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **4** | **3** | **2** | **1** | **0** |
| Accurately interprets all four pieces of evidence to completely explain the formation and placement in the solar system.  | Accurately interprets three of the four pieces of evidence to mostly explain the formation and placement in the solar system. | Accurately interprets two of the four pieces of evidence to partially explain the formation and placement in the solar system. | Accurately interprets one of the four pieces of evidence to partially explain the formation and placement in the solar system. | Does not accurately interpret any evidence. |