PRE-NATAL DEVELOPMENT PROJECT

Model and describe the development of a human from zygote to fetus. You can create a story book, a public service announcement poster/video, interactive 2D/3D model, computer simulation, use your imagination! **Think of your project as an interactive or visual presentation that will teach others about the pre-natal growth of humans**.

Your project should explain the following: (terms in parentheses must be included explicitly)

* Cleavage (blastomeres, morula, blastocyst) within first week
* Blastocyst structure (ICM, trophoblast) and implantation at 1 week
* Gastrulation (ectoderm, mesoderm, endoderm) at 2 weeks
* The role of each embryo support structure (chorionic villi, yolk sac, allantois, umbilical cord, amniotic sac)
* Embryonic development 3-8 weeks (organogenesis, primitive streak, fetus)
* Characteristics of the fetal period (min. 3 characteristics)

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | **4–Exemplary** | **3–Satisfactory** | **2–Needs Work** | **1-Unsatisfactory** |
| Content  (x3) | All steps of development are clearly explained. All required terms are explicitly described. | All steps of development are explained. Almost all required terms are explicitly described. | Almost all steps of development are explained. Some required terms are missing or not explicitly described. | Some steps of development are missing or unclear. Several terms are missing or not explicitly described. |
| Effort  (x1) | Project is creative and thoughtful. It is neat and well organized. | Project is thoughtful. It is neat and well organized. | Project is somewhat neat and organized. May not be thoughtful/ creative. | Project is lacking in neatness and/or organization. |
| Ease of Use  (x1) | Project is an effective teaching tool and is intuitive to use. | Project works as a teaching tool and is easy to use. | Project works as a teaching tool but requires help to use properly. | Project is not easy to use or is confusing. |

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| **GROUP SCORE SHEET** | | |
| **Students** | **Initial Score** | **Final Score** |
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| **TOTAL** |  |  |

**TOTAL = \_\_\_\_\_\_\_\_\_\_/ 20**