Are We Identical Twins Too?

**Outcome: BI30-GB1** Investigate the mechanisms and patterns of inheritance.

**Task:** You will work in collaborative teams to research the study of genetics and predict the genetic variability of two cousins whose parents are both identical twins. You will receive letters from a local television studio asking them to produce a multimedia presentation for their afternoon talk show, “The Gary Spranger Show.”  Your research will include making observations and analyzing the probability of offspring’s genotype after completing various Punnett squares and applying the Mendelian Genetic Laws to explain the possible outcomes of these children.

**Event 1:** Making of groups and assigning roles.

1. Complete “What Colour is your Rainbow” and decide on a team leader

**Event 2:** Delivery of letter from The Gary Spranger Show

**Event 3:** Research;

1. Refer to Presentation Content Rubric(s) for required information.
2. Create a list of questions that your group will answer
3. Properly Cite sources using MLA formatting

**Event 4:** Storyboard Creation

1. Plan your multimedia presentation
2. Create a script for each individual and their role

**Event 5:** Practice Presentation

**Event 6:** Present

**Project Portfolio Contents:**

* Letter
* Team Roster and Team Roles (What colour is your rainbow)
* Peer Evaluation
* Content Presentation Rubric
* Presentation Rubric
* Sample Resource List
* MLA basics
* Storyboard
* Self-Reflection (to be completed after presenting)

All of the above documents must be completed by each of your group members the day of presentation (except the self-reflection document)

**Things YOU need to add to Project Portfolio for assessment:**

* List of questions that pushed your research
* Research notes
* A properly formatted Bibliography (MLA) of your resources
* A presentation Script
* A print copy of your presentation

**\*\*This is a problem solving project. YOU create the questions you want to answer in order to complete the requirements of the Gary Spranger Show\*\***