

Name(s): _____ Due Date: _____ Period: _____

GENETICS 20-50-80 PROJECT

Directions: You will need to pick activities from the list below. The activities must total 100 points and you must do at least one project about punnett squares and one project about a gene technology. Place a checkmark next to each box to show which activities you will complete. You may work in pairs.

All activities must be completed by _____

Worth 20 Points each:

- Create a poster about gene technology. Include on the poster what it is, who discovered it, when it was discovered.
- Create a collage using images that represent your gene technology. Pictures must represent what it is, who discovered it, and when it was discovered.
- Pick two parents and using their physical features, create their genotypes and predict what their offspring might look like. Include percentages of the traits and punnett squares for each of the following: (Monohybrid Crosses, Dihybrid Crosses, Dominant/Recessive, Incomplete Dominance, Codominance, and Sex Linked Genes)

Worth 50 Points each:

- Create a photo essay of your technology. You must include in your essay what it is, who discovered it, when it was discovered, pros and cons about your technology.
- Create an advertisement for your gene technology. Advertisement must include who discovered it, when it was discovered, and what it is. Include the pros of your technology; Cons should be in "fine print." Must be typed and in color.
- Create a storybook that includes the description and example of a punnett square cross for Monohybrid Crosses, Dihybrid Crosses, Dominant/Recessive, Incomplete Dominance, Codominance, and Sex Linked Genes.
- Create a pamphlet that compares all the types of punnett squares. (Monohybrid Crosses, Dihybrid Crosses, Dominant/Recessive, Incomplete Dominance, Codominance, and Sex Linked Genes)

Worth 80 Points each:

- Create a board game that describes how traits are derived from patterns of genetic information. (Monohybrid Crosses, Dihybrid Crosses, Dominant/Recessive, Incomplete Dominance, Codominance, and Sex Linked Genes)
- Create a song/poem/rap about your technology. Must include who discovered it, when it was discovered, what it is and the benefits of the technology.
- Create a skit in which the characters evaluate a gene technology. Who discovered it, when it was discovered, what it is and pros and cons must be included. Script must be provided.
- Create a lesson to teach your classmates about punnett squares. The lesson must include a worksheet and cover the following types of punnett squares: Monohybrid Crosses, Dihybrid Crosses, Dominant/Recessive, Incomplete Dominance, Codominance, and Sex Linked Genes