

# SUPERHERO GENETICS PROJECT

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

## Part 1: Choosing the Parents and Determining Their Traits

- Go to **marvel.com** and/or **dccomics.com** (**dc.wikia.com**)
- Choose a male OR female superhero (or villain) to be the father/mother in your superhero family. The superhero must have at least one superpower. You CANNOT have the same superhero as another student. Make sure you check in so that you are not wasting time looking up a superhero that another student is working with. Get teacher approval!
- Bring a picture of your superhero to class.

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- On your character sheet, record **12 traits** for each character. A trait is a characteristic that is determined by their genes, which can be passed on to their offspring. For example, one can pass on super powers to a baby but not a job, where one grew up or hair style.
- Each character sheet **MUST** list the **SAME** 12 traits as your partner but can, of course, have different versions.

Help finding traits...

- Height (tall or short)
- Eye Color
- Hair Color
- Hair Type
- Skin Color
- Powers, like flight, super speed, telekinesis, etc.
- Weaknesses

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In this project, most traits will show *complete dominance*. We will choose one (or more) to display *incomplete dominance* if appropriate. For each trait, I will determine which allele should be *dominant* and which should be *recessive*. If the character has the dominant trait, you decide if they are *heterozygous* (have a dominant allele and a recessive allele) or *homozygous dominant* (have two dominant alleles). If they have the recessive trait, they are *homozygous recessive* (two small letters). **The majority of your dominant traits must be heterozygous.** List the correct genotype for each trait on your worksheet.

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