

**Learning Outcomes:**

Nature of Science	Students should be able to organise and communicate their research and investigative findings in a variety of ways fit for purpose and audience, using relevant scientific terminology and representations
Biological World	Students should be able to describe asexual and sexual reproduction; explore patterns in the inheritance and variation of genetically controlled characteristics

You have been hired by RTE to develop a new superhero cartoon character for RTE Junior. This character's story includes mutations in his or her genes—one positive, one negative, and one neutral. Your job is to design this character. Then, write a brief summary of his or her story that identifies the three mutations and explains why they are important to the character.

**Research**

Brainstorm ideas for your character. Decide whether your character is born with the mutations or something happens to cause the mutations later in his or her life.

- Does your character have three traits due to mutations with positive, negative, and neutral results?
- Draw your character, labelling or identifying the three traits due to mutations.
- Write a story for your character. Identify the trait associated with each mutation and how each trait affects your character.
- Prepare to present your character and his or her story to RTE Junior Producer.

Present your character and his or her story to the comic-book publisher.

Then, answer the following questions.

- How is your character an example of a model in genetics?
- How does your character show the relationship between a structure present in the body and its function?

Niamh Barry

JC Science 2017 Specification

- How does your character show that mutations can affect the structure and function of an organism?