

6.1.21

LO: To understand the uses for science, today and for the future, and how it impacts on our world

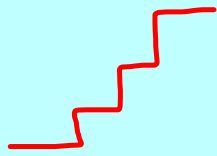
REAL WORLD SCIENCE - uses and implications

### What are inherited diseases?

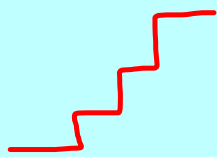
Diseases that are passed down from parents to their offspring are called genetic **disorders**, or **inherited diseases**. Since genes are passed from parent to child, any changes to the DNA within a gene are also passed on. The changes, or mutations, that can occur can cause a genetic **disorder** in the body.

### Examples of genetic disorders:

- **Down Syndrome:** extra genetic material causes a variety of development issues.
- **Cystic Fibrosis:** a thick, sticky mucus inhibits the respiratory and digestive systems.
- **Sickle Cell Anemia:** changes the shape of the red blood cells.



How can modern medicine help us to deal with genetic disorders?



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Modern medicine has allowed doctors to detect, treat and potentially prevent some genetic disorders.

