

NGSS MS-LS3-1

Curriculum Bundle

Genetic Mutations & Their Effect on Proteins

- ✓ 1 Lesson and 4 Activities
- ✓ Everything You Need to Teach NGSS MS-LS3-1



Resources Included



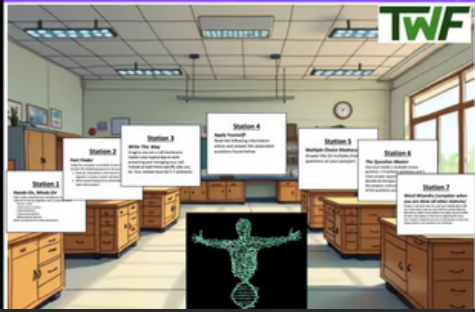
1 Lesson



4 Activities

- DNA Genes and Mutations Lesson
- Mutations and Inheritance of Traits - Station Activity
- DNA Paternity Tests Reading
- Gregor Mendel - Reading
- Crash Course Video Worksheet How Genes Express Themselves

Mutations and Inheritance of Traits
NGSS-MS-LS3-1 Station Activity



DNA, Genes, and Mutations

- What DNA and chromosomes are
- What genes are Common genetic features
- What proteins are
- How does changing DNA change proteins
- Mutations - what they are and what causes them
- Mutations - harmful, beneficial, or neutral effects
- Sickle cell anemia



Crash Course Biology 2.0
#37: Genetic Mutations: Is Drinking Milk a Super Power?

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

[WATCH VIDEO](#)

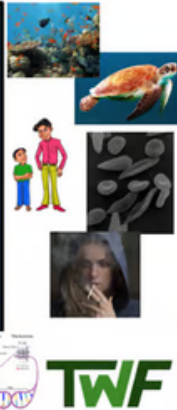


Includes Student Copy and Answer Keys

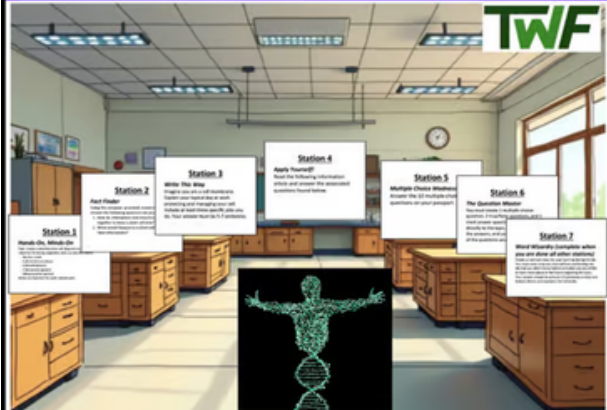
Everything You Need to Teach NGSS MS-LS3-1

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Mutations and Inheritance of Traits NGSS-MS-LS3-1 Station Activity



Gregor Mendel Scientific Reading Comprehension Article



Improve your students **Scientific Literacy** and **Analysis Skills**, use as an **Emergency Substitute Plan** or create **Applicability** in your classroom

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Includes Student Copy
and Answer Keys



DNA Paternity Tests Scientific Reading Comprehension Article and Extension Activity



Improve your students' **Literacy** and **Analysis Skills**, use as an **Emergency Substitute Plan**, or create **Applicability** in your classroom

The Standard is Explained and the Resources it Incorporates are Outlined

California Preferred Integrated NGSS Course Model – Grade 8 MS LS3 Heredity: Inheritance and Variation of Traits

MS LS3-1: Develop and use a model to describe why structural changes to genes (mutations) located on chromosomes may affect proteins and may result in harmful, beneficial, or neutral effects to the structure and function of the organism.

Emphasis is on conceptual understanding that changes in genetic material may result in making different proteins.

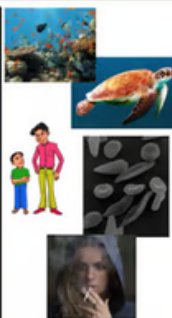
Assessment Boundary: Assessment does not include specific changes at the molecular level, mechanisms for protein synthesis, or specific types of mutations.

Resources:

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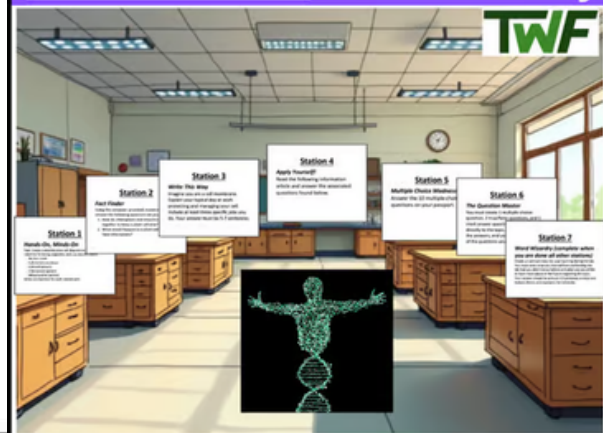
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Mutations and Inheritance of Traits NGSS-MS-LS3-1 Station Activity



Who is this Bundle for?

- **Teachers who teach middle school science and use the NGSS**
- **Teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to meet the standard**
- **Teachers who don't have time to develop their own resources or organize what to teach and when**