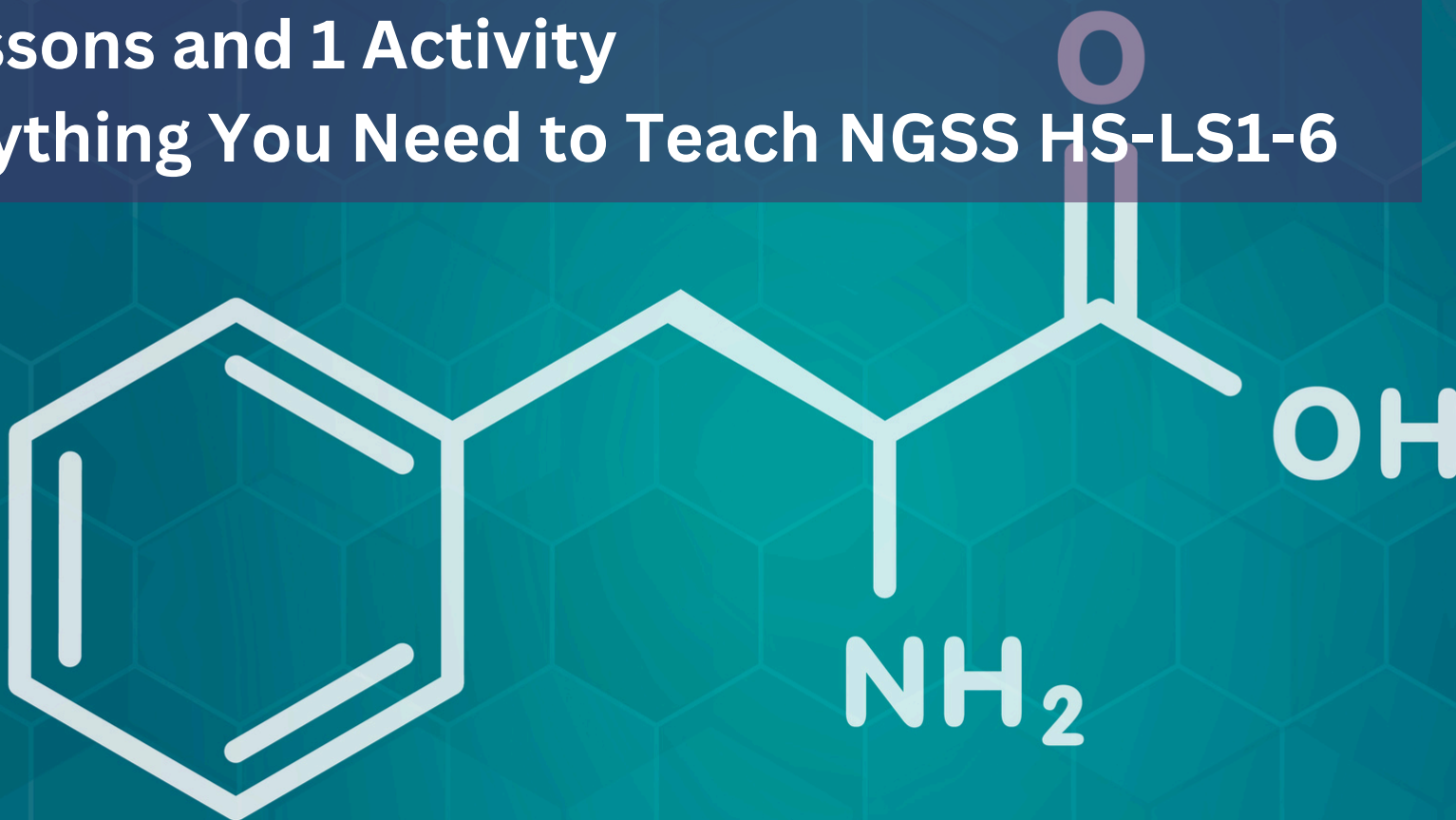


NGSS HS-LS1-6

Curriculum Bundle

Sugar to Structures: Modeling Carbon-Based Molecules

- ✓ 4 Lessons and 1 Activity
- ✓ Everything You Need to Teach NGSS HS-LS1-6



Resources Included

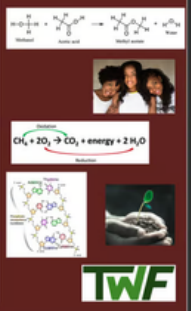
✓ 4 Lessons

✓ 1 Activity

- Biochemistry Introduction – Lesson
- Carbohydrates and Lipids – Lesson
- Carbon Chemistry – Lesson
- Proteins and Nucleic Acids – Lesson
- Crash Course Carbon & Biological Molecules - Video Worksheet

Biochemistry Introduction

- Biochemistry
- Organic Compounds
- Chemical Reactions
 - Dehydration Reactions
 - Hydrolysis Reactions
 - Neutralization Reactions
 - Redox Reactions



TW/F

Proteins and Nucleic Acids

- Function of Proteins
- Amino Acids Structure
- Essential Amino Acids
- Polypeptides
- Protein Structure
 - Primary, Secondary, Tertiary, Quaternary
- Denaturing Proteins
- DNA vs RNA
- DNA Structure

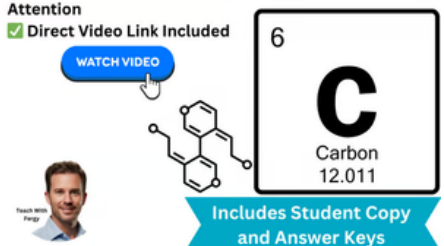


TW/F

Crash Course Biology 2.0
#20: Carbon & Biological Molecules: What is Life Made Of?

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

[WATCH VIDEO](#)



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Carbon
12.011

Includes Student Copy and Answer Keys

UPGRADE to the Bundle

CLICK HERE



This Bundle:

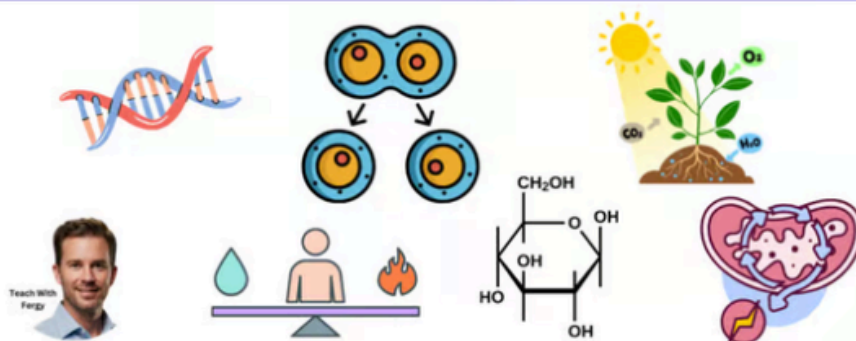
- ✓ Covers the entire NGSS HS-LS1 Standard
- ✓ Includes Many Lessons, Activities, Projects, and More
- ✓ Is No Prep & Fully Editable

NGSS HS-LS1

**Molecules to Organisms:
Structures & Processes**

Full Standard BUNDLE

- ✓ Everything You Need to Teach NGSS HS-LS1
- ✓ Lessons, Activities, Labs, Projects, and more
- ✓ HS-LS1-1, LS1-2, LS1-3, LS1-4, LS1-5, LS1-6, LS1-7



Everything You Need to Teach NGSS HS-LS1-6

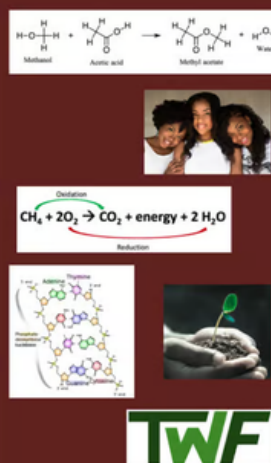
Carbohydrates and Lipids

- Carbohydrates
- Isomers
- Mono-, Di-, and Polysaccharides
- Lipids
- Fatty Acids
- Fats - Triglycerides
- Phospholipids
- Steroids
- Waxes



Biochemistry Introduction

- Biochemistry
- Organic Compounds
- Chemical Reactions
 - Dehydration Reactions
 - Hydrolysis Reactions
 - Neutralization Reactions
 - Redox Reactions



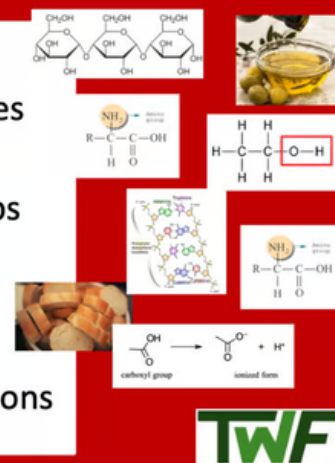
Proteins and Nucleic Acids

- Function of Proteins
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Carbon Chemistry

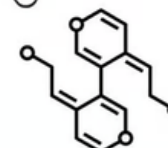
- Carbon
- Organic Molecules
- Hydrocarbons
- Functional Groups
- Acids and Bases
- Dehydration Reactions
- Hydrolysis Reactions



Crash Course Biology 2.0 #20: Carbon & Biological Molecules: What is Life Made Of?

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Includes Student Copy
and Answer Keys

The Standard is Explained and the Resources it Incorporates are Outlined

HS LS1 From Molecules to Organisms: Structures and Processes

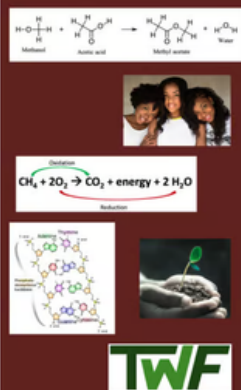
MS-LS1-6. Construct and revise an explanation based on evidence for how carbon, hydrogen, and oxygen from sugar molecules may combine with other elements to form amino acids and/or other large carbon-based molecules. [Clarification Statement: Emphasis is on using evidence from models and simulations to support explanations.] [Assessment Boundary: Assessment does not include the details of the specific chemical reactions or identification of macromolecules.]

Resources:

- Biochemistry Introduction – Lesson
- Carbohydrates and Lipids – Lesson
- Carbon Chemistry – Lesson
- Proteins and Nucleic Acids – Lesson
- Crash Course Carbon & Biological Molecules - Video Worksheet

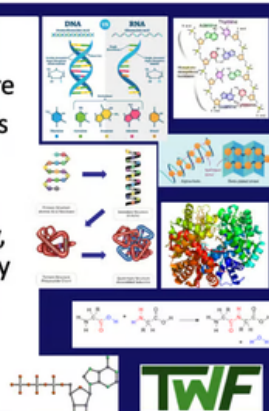
Biochemistry Introduction

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 - Hydrolysis Reactions
 - Neutralization Reactions
 - Redox Reactions



Proteins and Nucleic Acids

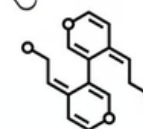
- Function of Proteins
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Carbon 12.011

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and Answer Keys

Who is this Bundle for?

- **Teachers who teach High 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**