

# Science Grade 5 Curriculum

Aligned to Next Generation Science Standards

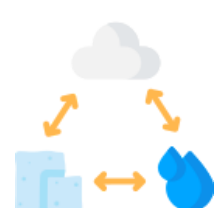


Curriculum accredited by  
STEM.org


## Physical Science

### Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics





### Matter

- What is Matter?
- States of Matter
- Energy Transfer
- Phase Change
- Properties of Matter
- Physical and Chemical Changes
- Law of Conservation of Mass
- **Progress check in scientific inquiry** 



### Matter: Pure or Impure

- What are Mixtures?
- Elements, Compounds & Mixtures
- Types of Mixtures
- Solutions
- **Progress check in scientific inquiry** 
- **Science Mastery Checkpoint** 

# Science Grade 5 Curriculum

Aligned to Next Generation Science Standards



Curriculum accredited by  
STEM.org


## Crosscutting Concepts

Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics




### Water

- What is Water?
- The Role of Water
- Types of Water
- Water on Earth
- Physical Properties of Water
- Hydrophobic vs Hydrophilic
- Water's Special Properties
- **Progress check in scientific inquiry** 





### Plants

- Plant Parts - Structure and Function
- Plant Needs
- Photosynthesis
- Types of Plants
- Seed Dispersal
- Plant Adaptations
- **Progress check in scientific inquiry** 



### Human Impact

- Human Impact on the Environment
- Types of Pollution
- Human Impact on other Species
- Solving Environmental Problems
- **Progress check in scientific inquiry** 
- **Science Mastery Checkpoint** 

# Science Grade 5 Curriculum

Aligned to Next Generation Science Standards



Curriculum accredited by  
STEM.org

## Life Science

### Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics

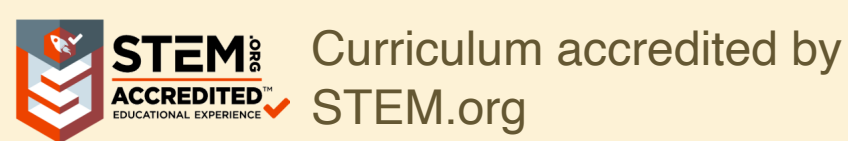


### Ecology

- Ecosystems
- Biodiversity
- Human Impact on Ecosystems
- Conservation and Sustainability
- Types of Organisms
- Food Chains and Webs
- Nutrient Cycling
- Biomes and Ecosystems
- Matter Flow in Ecosystems
- Invasive Species
- The Carbon Connection
- **Progress check in scientific inquiry** 
- **Science Mastery Checkpoint** 

# Science Grade 5 Curriculum

Aligned to Next Generation Science Standards




## Earth and Space Science

Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics




### Earth's History

- The Early Earth
- History of Life on Earth
- Fossils
- Studying Earth's Past
- **Progress check in scientific inquiry** 




### Earth's Systems

- Earth's Systems
- Earths' Hydrosphere
- Geosphere
- Biosphere
- The Atmosphere
- Clouds
- Protecting the Earth
- **Progress check in scientific inquiry** 



### Structure of the Universe

- Universe Formation-The Big Bang Theory
- Celestial Objects
- Sun's Movement
- **Progress check in scientific inquiry** 



### Earth, Moon, and Celestial Cycles

- Sun, Earth & Moon
- Sun's Movement
- Celestial Cycles
- Gravity
- What is a Star?
- Shadows
- The Seasons
- Constellations
- **Progress check in scientific inquiry** 
- **Science Mastery Checkpoint** 

# Science Grade 5 Curriculum

Aligned to Next Generation Science Standards



Curriculum accredited by  
STEM.org

## Engineering, Technology, and Applications of Science

Session 1 - 48

choose any 6 topics of your choice from the below mentioned topics



### Engineering Design

The Engineering Process

Defining Problems

Solving Problems

Using Models

**Progress check in scientific inquiry** 



### The Scientific Method and Scientific Inquiry

The Scientific Method

Observations vs. Inferences

Variables in Science

Analyzing and Interpreting Data

Creating an Experiment

**Progress check in scientific inquiry** 

**Science Mastery Checkpoint** 