


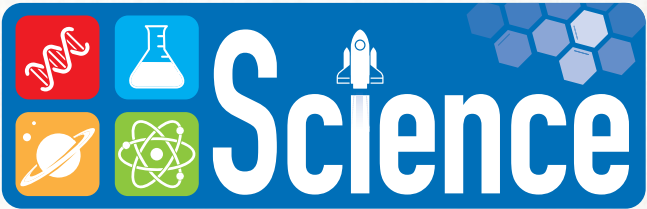
Personalized Learning Plan

- Creates an Adaptive, Personalized, Accelerated Learning Plan for each student
- Starts review with Readiness Standards followed by Supporting Standards

Description	Practice Test	Lock/Unlock
8 th Grade STAAR Practice Test	68%	

Accelerated Personalized Learning Plan

TEKS	Description	Pre-test	Concept Review	Vocabulary Boosters	Post-test
8.6C	Newton's Laws of Motion	45%	✓	80%	58%
 7.7B	Forces that Affect Motion in Organisms	59%	✓	100%	78%
 6.8C	Calculating Average Speed	64%	✓	95%	81%
 6.8E	Inclined Planes	71%	✓	95%	84%
8.5A	Atomic Structure	47%	✓	84%	87%
8.7A	Rotation and Revolution	50%	✓	86%	79%
8.7B	The Lunar Cycle	62%	✓	91%	91%
8.11A	Dependence on Biotic and Abiotic Factors	66%	✓	95%	95%
8.9C	Topographic Maps and Satellite Views	68%	✓	87%	⌚ Start
8.10B	Global Air Movement and Weather Maps	⌚ Start	▶	⌚ Start	⌚ Start
8.6B	Speed, Velocity, and Acceleration	⌚ Start	▶	⌚ Start	⌚ Start



Enabling Every Student to Reach Their Summit

6TH - 8TH GRADE MASTERY & STAAR[®] REVIEW



MEETS GRADE LEVEL



MASTERS GRADE LEVEL

- Engaging Science TEKS Video Lessons
- Interactive Vocabulary Flashcards for all TEKS
- Including Content, Process, and Instructional Words
- STAAR[®] 2.0 Formative and Summative Assessments
- Includes all HB 3906 New Item Types
- Adaptive Personalized Learning Plans

School Domain 1 Science Score of 60% “A” Guaranteed



**100% PASSING RATE
GUARANTEE**

RIGOROUS FIVE-STEP STAAR® REVIEW SEQUENCE

1 Teacher Led TEKS Lesson & Study Guide



2 STAAR® Assessment 1

$2\text{KI} + \text{Pb}(\text{NO}_3)_2 \rightarrow \text{PbI}_2 + 2\text{KNO}_3$

Which of the following indicates that a chemical reaction has occurred between the potassium iodide and the lead nitrate in the image above?

Select one:

- ☐ a. Light is released
- ☐ b. Change in color
- ☐ c. Change in volume
- ☐ d. Production of odor

3 TEKS Instructional Video

Atomic Structure

Subatomic Particle	Location	Mass	Charge
P Proton	Nucleus	1AMU	+
E Electron	Electron Cloud	1/1837AMU	-
N Neutron	Nucleus	1AMU	0

atom
atomic mass
electric charge

electron
electron cloud
neutron

nucleus
proton

Nucleus
• center of the atom
• dense due to its mass
• positively charged

Electron Cloud
• empty space
• very little mass
• negatively charged

4 Vocabulary Review Interactive Flashcards

EVIDENCE OF CHEMICAL REACTIONS AND THE LAW OF CONSERVATION OF MASS

How could you describe what this match can do? One of a match is that it can burn.

Select

EVIDENCE OF CHEMICAL REACTIONS AND THE LAW OF CONSERVATION OF MASS

What is happening? This Select is releasing a gas.

Newton's Second Law of Motion TEKS 8.7A

Name: _____ Period: _____ Date: _____

CORE VOCABULARY

acceleration net force mass
Newton's second law of motion

Use the clues to solve the following crossword puzzle.

Across

- Formula to represent Newton's Second Law of Motion
- The sum of all forces acting on an object
- The amount of matter in an object

Down

- A push or a pull measured in Newtons (N)
- Slowing down, speeding up, or a change in direction

APPLY

Complete the following if/then statements.

IF	force increases	while the mass remains constant	THEN	acceleration _____
IF	mass _____	while the mass remains constant	THEN	acceleration decreases.
IF	force decreases	while the mass remains constant	THEN	acceleration _____
IF	mass decreases	while the mass remains constant	THEN	acceleration _____

TEKS	Lesson Name	STAAR Assessment 1	TEKS Video	Vocabulary Review	STAAR Assessment 2	Lock/Unlock
Chemical Reactions						
8.5E R	Evidence of Chemical Reactions and the Law of Conservation of Mass	71%	✓	85%	90%	
7.6A S	Physical and Chemical Changes in Matter	88%	✓	83%	91%	
6.5C	Evidence of a Chemical Change	91%	✓	90%	100%	
5.5A	Properties of Matter	100%	✓	100%	100%	

5 STAAR® Assessment 2

Students observe a demonstration of magnesium burning in carbon dioxide and record the following observations.

- Observations**
- The teacher puts grey metal chips in a pile on a tray.
 - The teacher uses a blowtorch to start burning the chips.
 - The teacher adds dry ice on top of the burning chips.
 - A bright light is emitted.
 - A white smoke rises into the air.
 - A black residue is left on the tray.

Which observations are indicators that a chemical reaction has taken place? Select THREE correct answers.

- ☐ a. A white smoke rises into the air.
- ☐ b. A black residue is left on the tray.
- ☐ c. The teacher adds dry ice on top of the burning chips.
- ☐ d. A bright light is emitted.
- ☐ e. The teacher puts grey metal chips in a pile on a tray.

READINESS 8.5E

Evidence of Chemical Reactions and the Law of Conservation of Mass TEKS 8.5E

Common Signs of a Chemical Reaction

Heat is released or absorbed.	A gas may form.
Light is released.	An odor is produced.
The color of something changes.	A solid forms in a liquid.

$2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$

4 H atoms → 4 H atoms
2 O atoms → 2 O atoms
6 atoms → 6 atoms

chemical change
chemical equation
chemical reaction

Law of Conservation of Mass
precipitate

SUPPORTING/SCAFFOLD 7.6A

Physical and Chemical Changes in Matter TEKS 7.6A

A physical change is a change in the physical properties of matter such as the size, shape or state.

A chemical change is a change in the chemical properties of matter. The matter changes into a new substance.

chemical change
chemical property
matter
physical change
physical property

VERTICALLY ALIGNED SCAFFOLDS 6.5C

Evidence of a Chemical Change TEKS 6.5C

chemical change evidence precipitate substance

Physical Properties of Matter TEKS 5.5A

Measurable

Mass

The marbles have the same mass as the weights.

Solubility

Sugar dissolves in water.

Conductivity

Copper is a conductor. Rubber is an insulator.

Magnetism

Magnetism is a force that pulls iron filings toward the magnet.

Relative Density

The density of water is greater than the density of oil, so oil floats on water.

Observable

Physical States of Matter

The particles in solids, liquids, and gases move differently.

Other **measurable** properties:

- Size
- Temperature
- Weight

Other **observable** properties:

- Color
- Shape
- Texture

conductor
magnetism
matter
relative density

insulator
mass
physical states
solubility

