

STUDENT NAME: _____

DATE: _____

CLASS: _____

SCORE: _____

LESSON 145 • FORMS OF WATER & STORY SYNTHESIS

LIQUID • SOLID • VAPOR

Wheeler's Elementary Speller • Page 76

Scientific Vocabulary • The Hydrological Transformations of Water

Water takes many wonderful forms in nature depending on heat and cold.

LIQUID: dew, rain, mist

SOLID: ice, frost, hail, sleet, snow, iceberg

GAS / VAPOR: steam, cloud, fog

CONCEPT

1

12 Forms of Water Word Bank • Penmanship Track

Copy the 12 forms of water neatly on the 26px lines:

dew fog ice hail mist frost

rain sleet steam cloud snow iceberg

2

Scientific Classification Studio • States of Matter

Sort the 12 forms into the three states of matter:

Liquid: dew, rain, mist Gas / Vapor: steam, cloud, fog

Solid (Frozen): ice, frost, hail, sleet, snow, iceberg

3

Meteorological Story Synthesis • Creative Composition

Write a continuous story incorporating at least 4 forms of water:

Morning mist rose from the lake into a grey cloud.

Cold winds turned the rain into sleet, covering the grass in frost.

WHEELER'S ORTHOEPIC RULES • STATES OF WATER

1. 1. Three States of Matter: Water exists in nature in three distinct physical states: as a liquid (rain, dew), a solid (ice, frost, snow), and a vapor or gas (steam, fog).

2. 2. Temperature Transformations: When water freezes at 32°F (0°C), liquid turns to solid ice or snow. When heated to 212°F (100°C), water boils into invisible steam.

3. 3. Compound Words in Meteorology: iceberg is a compound of Dutch origin (ijsberg — ice mountain). Notice the combination of two base words: ice + berg.

LESSON 145 TEACHER GUIDE & ANSWER KEY

SCIENCE • METEOROLOGY • STORY SYNTHESIS

Wheeler's Elementary Speller • Page 76

FORM OF WATER	IPA	STATE OF MATTER	SCIENTIFIC & ORTHOGRAPHIC NOTE
dew	/dju:/	Liquid	Condensed water droplets on grass. Digraph ew.
fog	/fog/	Gas / Vapor	Condensed water vapor near the ground. Short /b/.
ice	/ais/	Solid	Frozen water. Soft c before silent final e.
sleet	/sli:t/	Solid	Partially frozen rain pellets. Digraph ee.
steam	/sti:m/	Gas / Vapor	Boiling water vapor. Digraph ea.
iceberg	/'aisb3:rg/	Solid	Compound noun: ice + berg (floating mountain of ice).

COMPLETE ANSWER KEY & SOLUTIONS

WHEELER'S EXERCISES

Exercise 2 Classification:

- Liquid: dew, rain, mist.
- Solid: ice, frost, hail, sleet, snow, iceberg.
- Gas / Vapor: steam, cloud, fog.

Exemplar Model Story:

The morning mist rose slowly from the meadow, forming a fluffy white cloud in the chilly sky. Soon cold rain fell, which quickly turned to freezing sleet and snow. By twilight, the quiet pond was sealed under solid ice, and a delicate coat of frost sparkled upon every tree.

SOCRATIC GUIDING PROMPTS & PEDAGOGICAL INSIGHTS

INSTRUCTIONAL STRATEGIES

- What happens to boiling water in a kettle? What do we call the white vapor that rises?
- How does rain turn into snow or hail? What causes this change in nature?
- Can you name three forms of water that you can hold in your hand as a solid?

DICTATION & ORAL APPLICATION SENTENCES (READ SLOWLY AT NORMAL SPEAKING PACE):

- Morning dew sparkled like tiny diamonds upon the grass.
- Chilly mist and dense fog hid the mountain tops from view.
- Cold winds turned the heavy rain into icy sleet and snow.
- A gigantic iceberg floated majestically across the northern sea.