

**Unit:** Weather

**Chapter:** Matter

**Lesson #:** Properties of Matter

**Aim:** What are the properties of matter?

**Standards:**

**Materials/Resources:**

Concepts and Challenges New York Edition p73

**Do Now:**

Answer yesterday's aim in a few sentences.

**Vocabulary:**

**matter:** anything that has mass and takes up space

**properties:** characteristics used to describe an object

**Procedure/Focus Questions:**

**SWBAT:** Identify two basic properties of matter.

- Matter is anything that has mass and takes up space.
- Water and air are two examples of matter.
- Some properties of matter are color, shape, and hardness.
- Four basic properties of matter are mass, volume, weight, and density.

**Guided/Independent Practice:**

**Rationale for Grouping:**

\*Students are grouped by mixed levels of achievement, as measured by state and class assessments, for the purposes of using cooperative learning to meet the expectations of the CC standard.

\*Students are grouped by similar levels of achievement, as measured by state and class assessments, for the purposes of differentiating CC standard expectations to support and challenge students appropriately.

\*Students are grouped by learning style/preferences and their level of current understanding of the pertinent standard, as assessed by questioning techniques and observational data.

**Assessment:**

**Next Steps/Homework:**

Define today's vocabulary words

**Reflections:**

Aim: What are the properties of matter?

## **Vocabulary**

matter: anything that has mass and takes up space

properties: characteristics used to describe an object

## **Class Notes**

- \* Matter is anything that has mass and takes up space.
- \* Water and air are two examples of matter.
- \* Some properties of matter are color, shape, and hardness.
- \* Four basic properties of matter are mass, volume, weight, and density.

Aim: What are the properties of matter?

**Questions:**

1. Define: What is matter?

2. Define: What is a property?

3. List: What are the two basic properties of matter?

Aim: What are the properties of matter?

**Checking Concepts Use p75 to help you**

1. All the objects you see around you are made up of \_\_\_\_\_ .

2. Matter is anything that has mass and takes up \_\_\_\_\_ .

3. Mass is a basic \_\_\_\_\_ of matter.

4. Weight is a measure of the pull of \_\_\_\_\_ on an object.

5. The amount of space taken up by matter is its \_\_\_\_\_ .

Aim: What are the properties of matter?

## **Thinking Critically**

6. Infer: What is the difference between mass and weight?

7. Explain: Why do you think scientists can use the basic properties of matter to help identify an unknown substance?

Aim: What are the properties of matter?

**Homework:**

Observing: Choose three objects in your home. Examine each carefully. List four properties of each and the senses you used to help describe each.