

# PLEASE ENJOY THIS FREE PRODUCT

This resource has been a hit in my classes and I hope it will be in yours as well.

If you find this product is useful for your classroom, I would really appreciate you going back to the TPT site and giving me **feedback**.



Thanks so much!

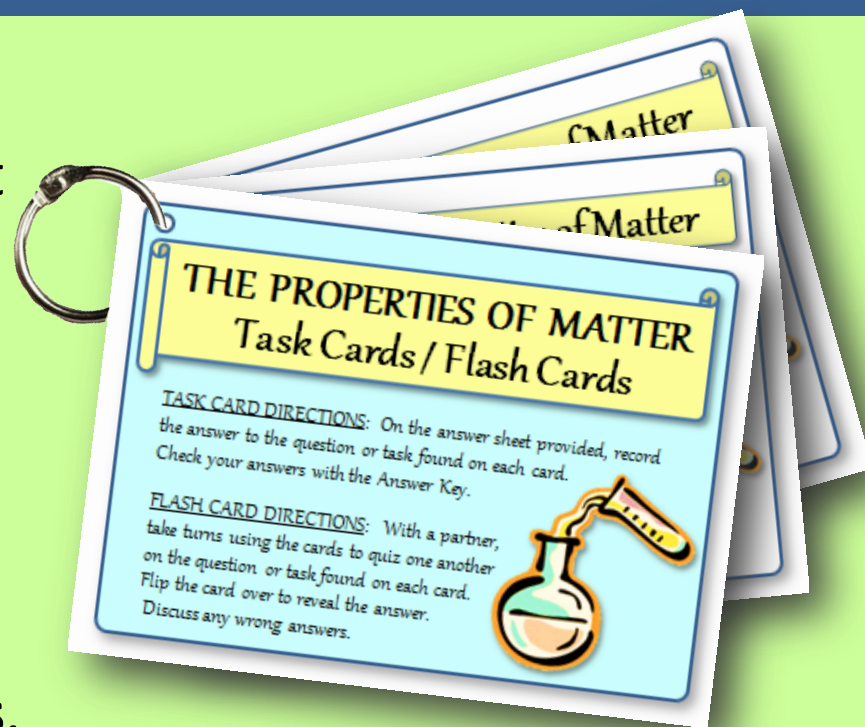
**Tangstar Science**  
(a.k.a. Proud Science Nerd)

# THANKS FOR DOWNLOADING THIS ITEM!

**PAGES:** In this document the first few pages (green background) is the **Teacher's Guide** to help you assemble your card set and give you ideas for use. The remaining pages (white background) contain the **title card** options as well as all the **question and answer cards**.

A **blank question and answer template** has been added at the end to allow you to custom make your own questions.

**NOTE ON PRINTING:** If printing out the answers on the back of the cards, make sure to **test the alignment** first so that each question card is properly aligned with its **answer on the opposite side**.



# IDEAS FOR USE

- ⇒ **EARLY FINISHERS:** Have sets ready at hand to give early finishers something to keep them going when others are still working on other assignments.
- ⇒ **PARENTAL INVOLVEMENT:** For students who have parents who want to get more involved, a set can be signed out and sent home to be used as flash cards between the parent and student. This also better helps parents understand their child's learning style.
- ⇒ **STUDENT CENTERED ENRICHMENT OR REVIEW:** This is a great way to promote independent learning and give students a chance to reinforce what they know or enrich their understanding.



## ⇒ **INDEPENDENT CENTER:**

Students use the cards as **task cards** to complete the set on their own using the student record sheet. This helps develop their **reading** and **writing** skills and focuses on **self-directed** learning.

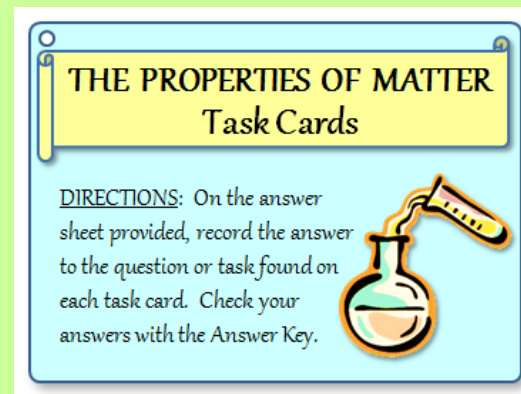
## ⇒ **GROUP CENTER:**

Students work together using the cards as **flash cards** to quiz each other. This helps develop their **reading, listening** and **speaking** skills and focuses on **group** skills.

# 3 OPTIONS FOR USE AND PRINTING

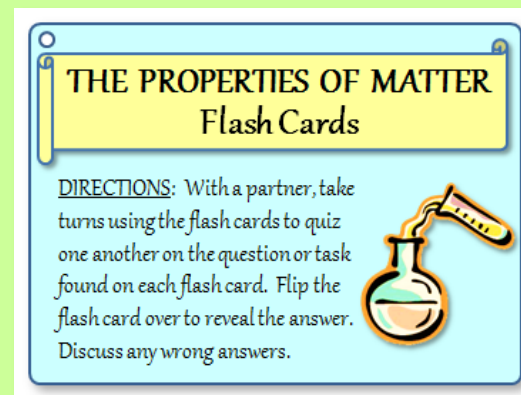
## 1) TASK CARDS ONLY

- ⇒ Print out only the **question** side of the cards.
- ⇒ Print out this **title card** for the task cards.



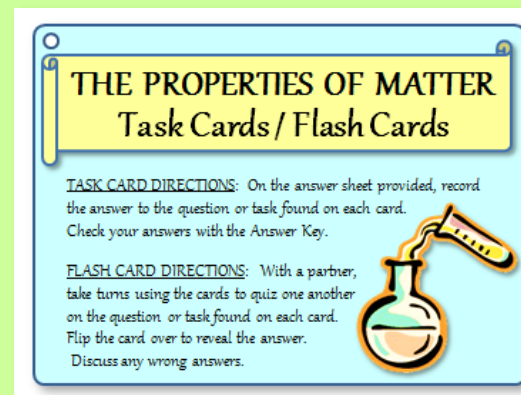
## 2) FLASH CARDS ONLY

- ⇒ Print out the **question** side on the front AND the **answer** side on the back.
- ⇒ Print out this **title card** for the flash cards.



## 3) CONVERTIBLE TASK & FLASH CARDS

- ⇒ Print out the **question** side on the front AND the **answer** side on the back.
- ⇒ Print out this **title card** for the convertible task-flash cards.



# FOR TASK CARDS USE THE RECORD SHEET AND ANSWER KEY

1

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

## PROPERTIES OF MATTER Task Card Record Sheet

Task Card

Record Your Answers

|    |  |
|----|--|
| 1  |  |
| 2  |  |
| 3  |  |
| 4  |  |
| 5  |  |
| 6  |  |
| 7  |  |
| 8  |  |
| 9  |  |
| 10 |  |
| 11 |  |
| 12 |  |
| 13 |  |
| 14 |  |
| 15 |  |
| 16 |  |
| 17 |  |

2

Task Card

## Record Your Answers

|    |  |
|----|--|
| 18 |  |
| 19 |  |
| 20 |  |
| 21 |  |
| 22 |  |
| 23 |  |
| 24 |  |
| 25 |  |
| 26 |  |
| 27 |  |
| 28 |  |
| 29 |  |
| 30 |  |

3

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

## ANSWER KEY

### PROPERTIES OF MATTER Task Card Record Sheet

Task Card

Record Your Answers

|    |   |
|----|---|
| 1  | odor  |
| 2  | hardness  |
| 3  | solubility  |
| 4  | melting point   |
| 5  | electrical conductivity   |
| 6  | boiling point   |
| 7  | chemical  |
| 8  | The property of hardness is being demonstrated. The diamond is more resistant to scratching because it is much harder than the marble. The glass however is much less hard than the marble so it scratches when the two are pressed together. |
| 9  | viscosity   |
| 10 | viscosity   |
| 11 | density   |
| 12 | This is demonstrating the property of viscosity. Your container emptied first because the liquid in it was less viscous than the liquid in your friend's container, and hence it poured out faster.   |
| 13 | melting point   |
| 14 | combustibility  |
| 15 | The property is solubility. The salt disappears in the water because it is soluble in water, but the sand is insoluble and so it does not dissolve and so it does not disappear in water.   |
| 16 | texture   |
| 17 | The property of clarity is being demonstrated. Since the sunglasses are translucent, they prevent some of the sunlight from passing through the lenses and into your eyes.  |
| 18 | crystal form  |
| 19 | opacity   |
| 20 | opaque  |
| 21 | state   |
| 22 | physical  |
| 23 | transparent   |
| 24 | reactivity to water   |
| 25 | translucent   |
| 26 | The property of density is being illustrated. The plastic ball floats and the metal ball sinks because substances that are more dense than water will sink and substances less dense than water will float.                                   |
| 27 | taste   |
| 28 | ductility   |
| 29 | The property of combustibility is being demonstrated. Wet wood is far less able to catch fire than dry wood.  |
| 30 | clarity   |
| 31 | magnetism   |
| 32 | color   |

# BLANK TEMPLATES ARE PROVIDED FOR YOU TO CUSTOMIZE



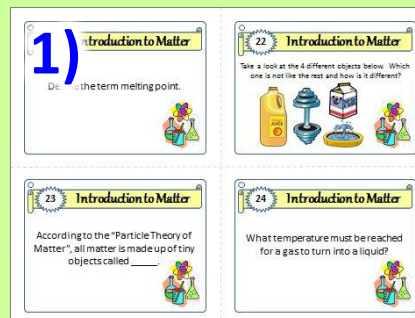


# ASSEMBLING YOUR CARD SET



## SIMPLE STEPS TO PREPARE THE CARDS

- 1) **Print** each 4 card “**Question**” page on the front of a piece of card stock paper. (If making flash cards or the convertible cards, print the “**Answer**” page on the back.)
- 2) **Cut** out the cards on the dotted lines.
- 3) **Laminate** if you wish for the cards to be more durable.
- 4) **Hole punch** the corner of each card in the indicated spot.
- 5) Use a **binder ring** to keep the set of cards together.
- 6) Store class sets in a box.



# COMMON CORE CONNECTIONS



## COMMON CORE CONNECTIONS

Targets CCSS.ELA-Literacy requirements for **SPEAKING AND LISTENING** for Grades 7 -12

[CCSS.ELA-Literacy.SL.7.1](#)

[CCSS.ELA-Literacy.SL.7.6](#)

[CCSS.ELA-Literacy.SL.8.1](#)

[CCSS.ELA-Literacy.SL.8.6](#)

[CCSS.ELA-Literacy.SL.9-10.1](#)

[CCSS.ELA-Literacy.SL.9-10.6](#)

[CCSS.ELA-Literacy.SL.11-12.1](#)

[CCSS.ELA-Literacy.SL.11-12.6](#)

Targets CCSS.ELA-Literacy requirements for **WRITING** for Grades 7 -12

[CCSS.ELA-Literacy.W.7.2](#)

[CCSS.ELA-Literacy.W.8.2](#)

[CCSS.ELA-Literacy.W.9-10.2](#)

[CCSS.ELA-Literacy.W.11-12.2](#)



## COMMON CORE CONNECTIONS

Targets CCSS.ELA-Literacy requirements for **READING INFORMATIONAL TEXTS** for Grades 7 -12

[CCSS.ELA-Literacy.RI.7.4](#)

[CCSS.ELA-Literacy.RI.8.4](#)

[CCSS.ELA-Literacy.RI.9-10.4](#)

[CCSS.ELA-Literacy.RI.11-12.4](#)

Targets CCSS.ELA-Literacy requirements for **SCIENCE AND TECHNICAL SUBJECTS** for Grades 7 -12

[CCSS.ELA-Literacy.RST.6-8.4](#)

[CCSS.ELA-Literacy.RST.9-10.4](#)

[CCSS.ELA-Literacy.RST.11-12.4](#)



## THE PROPERTIES OF MATTER Task Cards

DIRECTIONS: On the answer sheet provided, record the answer to the question or task found on each task card. Check your answers with the Answer Key.



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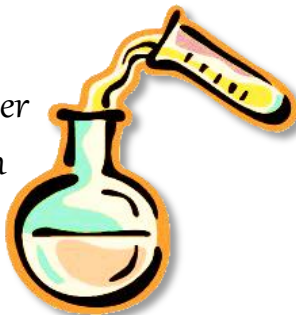
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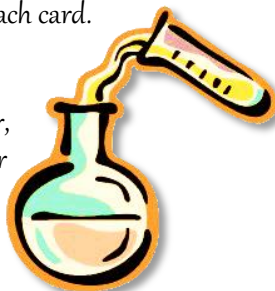


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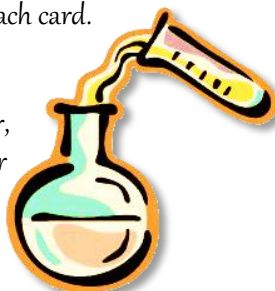


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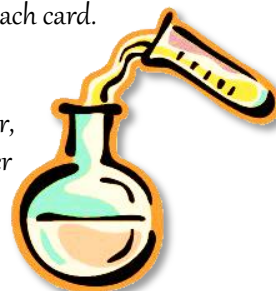


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1

## The Properties of Matter

What is the property of matter detected by the nose?



2

## The Properties of Matter

What property of matter is determined by how easily it can be scratched?



3

## The Properties of Matter

What property of matter determines whether or not one substance can dissolve in another?



4

## The Properties of Matter

Lead will go from a solid to a liquid at  $327.5^{\circ}\text{C}$  but it takes a temperature of  $660.3^{\circ}\text{C}$  for aluminum to do the same thing. What property of matter is this demonstrating and why?



2

hardness

Answer

1

odor

Answer

4

melting point

Answer

3

solubility

Answer

5

## The Properties of Matter

What property of matter determines whether or not a substance can conduct an electrical current?



6

## The Properties of Matter

What property of matter is the temperature at which the liquid state of a substance turns into the gas state?



7

## The Properties of Matter

When a certain property of a substance can only be detected through the substance's interaction with another substance, then this property is a \_\_\_\_ property.



8

## The Properties of Matter

If you drag a piece of sharp marble over a piece of diamond it won't be able to make a mark on the diamond's surface, however, this same piece of marble will be able to make a mark on a piece of glass.

What property of matter is being demonstrated and why?



6

boiling point

Answer

5

electrical  
conductivity

Answer

8

The property of **hardness** is being demonstrated. The diamond is more resistant to scratching because it is much harder than the marble. The glass however is much less hard than the marble so it scratches when the two are pressed together.

Answer

7

chemical

Answer

9

## The Properties of Matter

What property of matter determines whether or not something is shiny or dull?



10

## The Properties of Matter

What property of matter determines how easily a substance can pour or flow from its container?



11

## The Properties of Matter

What property of matter is determined by how much mass of a substance there is in a volume of space?



12

## The Properties of Matter

You and a friend each begin to pour two different liquids from identical containers at the same time. Though the volume of the liquids is the same, your own container empties before your friend's container. What property of matter is this demonstrating and why?



10

viscosity

Answer

9

luster

Answer

12

This is demonstrating the property of **viscosity**. Your container emptied first because the liquid in it was less viscous than the liquid in your friend's container, and hence it poured out faster.

Answer

11

density

Answer



### 13 The Properties of Matter

What property of matter is the temperature at which the solid state of a substance turns into the liquid state?



### 14 The Properties of Matter

What property of matter determines whether or not a substance will catch fire in the presence of oxygen and heat?



### 15 The Properties of Matter

When you mix salt in water the salt will eventually disappear but if you mix sand in water the sand will not.

What property of matter is this illustrating and why?



### 16 The Properties of Matter

What property of matter can be felt when touching the surface of an object?



14

combustibility

Answer

13

melting point

Answer

16

texture

Answer

15

The property is **solubility**. The salt disappears in the water because it is soluble in water, but the sand is insoluble and so it does not dissolve and so it does not disappear in water.

Answer

17

## The Properties of Matter

When the sun is really bright some people put on sunglasses. What property of matter is being demonstrated by this and why?



18

## The Properties of Matter

What property of matter can be observed when looking at the geometrical shapes some solids form?



19

## The Properties of Matter

What property of matter allows a substance to be hammered into a thin sheet?



20

## The Properties of Matter

If a substance does not allow any light through it, how would you describe this substance?



18

crystal form

Answer

17

The property of **clarity** is being demonstrated. Since the sunglasses are translucent, they prevent some of the sunlight from passing through the lenses and into your eyes.

Answer

20

opaque

Answer

19

malleability

Answer

21

## The Properties of Matter

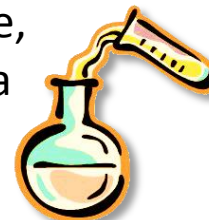
What property of matter describes whether a substance is in its solid, liquid or gas form?



22

## The Properties of Matter

When the property of a substance can be observed or measured without changing the chemical identity of a substance, then the property is a \_\_\_\_\_ property.



23

## The Properties of Matter

If a substance allows 100% light to pass through it, how would you describe this substance?



24

## The Properties of Matter

What property of matter determines whether or not it can react to water?



22

physical

Answer

21

state

Answer

24

reactivity to water

Answer

23

transparent

Answer



25

## The Properties of Matter

When a substance allows only some light to pass through it, how would you describe this substance?



26

## The Properties of Matter

When you put a plastic ball and a metal ball of the same size in a glass of water, the metal ball will sink and the plastic ball will float. What property of matter is this illustrating and why?



27

## The Properties of Matter

What property of matter determines whether or not something is sweet, sour or bitter?



28

## The Properties of Matter

What property of matter determines whether or not a substance can be stretched into a thin wire?



26

The property of **density** is being illustrated. The plastic ball floats and the metal ball sinks because substances that are more dense than water will sink and substances less dense than water will float.

Answer

25

translucent

Answer

28

ductility

Answer

27

taste

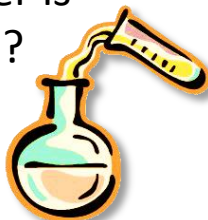
Answer

29

## The Properties of Matter

It is much more difficult to start a fire with wet wood than with dry wood.

What property of matter is being demonstrated?



30

## The Properties of Matter

What property of matter determines how much light can pass through a substance?



31

## The Properties of Matter

What property of matter determines whether or not an object can be attracted to a magnetic field?



32

## The Properties of Matter

What property of matter is detected by the eyes when certain wavelengths of light reflect off of objects?



30

clarity

Answer

29

The property of **combustibility**  
is being demonstrated.

Answer

32

color

Answer

31

magnetism

Answer

## The Properties of Matter



## The Properties of Matter



## The Properties of Matter



## The Properties of Matter





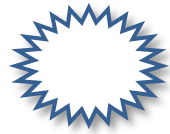
Answer



Answer



Answer



Answer





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