

# CHAPTER 13 STATES OF MATTER

## STUDY ANSWER KEY

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**What are the three fundamental states of matter \_\_\_\_\_ and \_\_\_\_\_?** Three states of matter exist—solid, liquid, and gas. Solids have a definite shape and volume. Liquids have a definite volume, but take the shape of the container. Gases have no definite shape or volume.

**Is the kinetic energy of all the particles in a given sample of matter the same?** At any given temperature, not all of the particles in a sample of matter have the same kinetic energy. Instead, the particles display a wide range of kinetic energies. Most of the particles have a kinetic energy near the middle of the range.

**What are the three states of matter worksheet answers?** They fill available space (slight attraction between particles). They are very compressible (particles are widely spaced). There are three states of matter: solid; liquid and gas.

**What is the state of matter answer?** In physics, a state of matter is one of the distinct forms in which matter can exist. Four states of matter are observable in everyday life: solid, liquid, gas, and plasma.

**What is the smallest unit of matter?** Answer: An atom is the smallest unit of matter known to retain all chemical properties of an element.

**What matter can exist in all 3 states?** Water is the only substance where all three states can be readily observed in everyday life: solid water as ice, liquid water in a water fountain, and gaseous water as steam.

**Which state of matter most easily expands?**

**Do gas particles collide with each other?** Gases consist of particles (molecules or atoms) that are in constant random motion. Gas particles are constantly colliding with each other and the walls of their container. These collisions are elastic; that is, there is no net loss of energy from the collisions.

**Which states of matter can flow?** Fluids (Liquids and Gases) Liquids and gases are called fluids because they can be made to flow, or move.

**What are the 10 examples of liquids?**

**Which has more density, liquid or solid?** The density of solids is higher than that of liquids because the particles are more compactly arranged in a solid with very less intermolecular spaces between them. In liquids, these intermolecular spaces are more and hence they are less dense.

**Which state holds its own shape?** A solid is the state of matter that has a definite shape and volume.

**What are 5 examples of solid liquid and gas?**

**What process is gas to liquid?** Condensation is the change of state from a gas to a liquid.

**What are 5 differences between solid, liquid, and gas?** Overall, solids have a definite shape and volume, liquids have a definite volume but take the shape of the container, and gases have neither a definite shape nor volume, filling the space available to them. The arrangement, movement, density, and intermolecular forces differ among these states of matter.

**What are the 3 main states of matter?** Solids, liquids and gases are three states of matter. In solids, the particles are tightly packed together. In liquids, the particles have more movement, while in gases, they are spread out. Particles in chemistry can be atoms, ions or molecules.

**What are the fundamental states of matter?** The answer is that there are four fundamental states of matter – solid, liquid, gas and plasma. These are the ones that

occur naturally in the Universe. On top of these, there are exotic states of matter.

**What are the three fundamental particles of matter?** Atoms consists of electrons, protons and neutrons as the fundamental particles.

**What are the three fundamental laws of matter?** The law of the conservation of mass. The law of constant proportions. The law of multiple proportions.

### **The Merchant of Venice: Third Series of the Arden Shakespeare**

The Merchant of Venice is a timeless masterpiece by William Shakespeare that explores themes of love, friendship, justice, and prejudice. The Arden Shakespeare, Third Series is a renowned edition of the play that provides scholars and enthusiasts with comprehensive interpretive materials.

**1. What are the key features of the Arden Shakespeare, Third Series edition of The Merchant of Venice?** The Arden Shakespeare, Third Series edition of The Merchant of Venice is edited by John Jowett and William Montgomery. It includes:

- A detailed introduction with critical essays and performance history
- A modernized text with extensive notes and annotations on language, character, and historical context
- A comprehensive glossary of terms and phrases
- A detailed stage history with production photographs

**2. What is the significance of the introduction and critical essays?** The introduction provides a comprehensive overview of the play's critical history, performance history, and cultural significance. The critical essays explore various aspects of the play, such as its themes, characters, and social commentary.

**3. How do the notes and annotations enhance understanding of the text?** The notes and annotations provide detailed explanations of difficult language, literary allusions, and historical references. They also offer insights into character motivations, plot developments, and the play's cultural context.

**4. What is the value of the stage history and production photographs?** The stage history provides a chronological record of notable productions of The Merchant

of Venice, from its earliest performances to the present day. The production photographs offer a glimpse into the different ways the play has been interpreted and staged throughout history.

**5. Who is the intended audience for the Arden Shakespeare, Third Series edition of The Merchant of Venice?** The Arden Shakespeare, Third Series edition of The Merchant of Venice is intended for scholars, students, and anyone with a serious interest in understanding and appreciating the play. It is a valuable resource for literary analysis, performance studies, and general enjoyment.

## **Wren and Martin English Grammar Answers: A Guide to Accuracy**

### **Paragraph 1: Introduction**

Wren and Martin's English Grammar is a comprehensive and authoritative guide to the intricacies of the English language. Designed for students of all levels, this grammar book provides clear explanations, concise rules, and numerous exercises to enhance understanding and proficiency. In this article, we will explore a selection of commonly asked questions and answers from Wren and Martin's English Grammar to help you master the language.

### **Paragraph 2: Parts of Speech**

- **What is a noun?** A noun is a word that names a person, place, thing, idea, or quality.
- **What is the difference between a subject and a predicate?** A subject is the part of a sentence that performs the action, while a predicate is the part that describes the action or state of being.
- **How do you identify an adjective?** An adjective is a word that modifies a noun or pronoun, describing its qualities or characteristics.

### **Paragraph 3: Tenses**

- **What are the six tenses in English?** The six tenses are present simple, present perfect, past simple, past perfect, future simple, and future perfect.
- **How do you use the present perfect tense?** The present perfect tense is used to describe actions that started in the past and continue into the

present.

- **What is the difference between the past simple and past continuous tenses?** The past simple tense describes completed actions in the past, while the past continuous tense describes an action that was ongoing at a specific time in the past.

#### Paragraph 4: Conditional Sentences

- **What are the four types of conditional sentences?** Conditional sentences are classified into four types: zero, first, second, and third.
- **How do you use a zero conditional sentence?** Zero conditional sentences express general truths or scientific facts.
- **What is the purpose of a first conditional sentence?** First conditional sentences describe possible or probable events in the future.

#### Paragraph 5: Other Common Questions

- **How do you use a comparative adjective?** Comparative adjectives are used to compare two different qualities of the same thing.
- **What is the role of a preposition?** Prepositions connect nouns or pronouns to other words in a sentence, indicating their relationship or position.
- **How do you form the passive voice?** The passive voice is formed using the appropriate form of the verb "to be" followed by the past participle of the main verb.

By studying and practicing these answers from Wren and Martin English Grammar, you can significantly enhance your understanding of English grammar and improve your ability to communicate effectively in written and spoken form.

#### How do you use a popcorn machine step by step?

**What is the ratio of popcorn to oil in a popcorn machine?** 4 ounce popcorn machine: use 1/4 cup oil and 1/2 cup popcorn. 6 ounce popcorn machine: use 1/4 cup oil and 3/4 cup popcorn. 8 ounce popcorn machine: use 1/3 cup oil and 1 cup popcorn. 12 ounce popcorn machine use: 1/2 cup oil & 1-1/2 cups popcorn.

**How long does a popcorn machine take to pop?** Your popcorn machine will take about 5-7 minutes to heat up the kettle to be ready to pop. Simply add the contents of a portion pack and you'll have popcorn in about 4-5 minutes.

**How to make pop corn in a popcorn machine?**

**What oil to use in a popcorn machine?** The type of oil that you use will affect the taste of the popcorn. The most common type that is used is coconut oil. It's normally regarded as the best tasting, and has long been a staple at movie theaters. However, the health-conscious often prefer canola oil, due to its lower fat and cholesterol content.

**How much popcorn and butter do you put in a popcorn machine?** To make popcorn, we use half a stick of butter, a cup of popcorn, and a half teaspoon of Flavacol (which makes it taste exactly like movie theater popcorn). If you prefer, you can also use oil instead of butter or salt instead of Flavacol.

**What happens if you put too much oil in popcorn machine?** If you use too much oil, this can easily lead to poor popping results. The problem with too much oil is that the kernels end up swimming in the oil and roasting slowly instead of exploding into fully popped kernels. Also, do not pour in too many kernels with the oil.

**Can you use butter instead of oil in popcorn machine?** A: Yes. I put 2 tablespoons of butter and 1/4 cup of popcorn in the bottom of the popper and pop until the popping slows down. It does nothing to harm the popper and as long as you don't overpop, the popcorn will not burn.

**Can you use regular popcorn in a popcorn machine?** What kind of popcorn can you use? This machine works with any regular or premium brand of popcorn kernels. You can use any popcorn cooking oil, though the brand recommends coconut oil for best results.

**Why is my popcorn not popping in popcorn machine?** Excess Moisture (or a Lack of It) One likely reason your kernels aren't popping is because they lack moisture. Every kernel has water inside it. When exposed to enough heat, the water turns into steam.

**Does soaking popcorn make it pop better?** As the hydrated kernels soak, water travels through their hulls into their starchy interiors, making them expand and making the hull weaker. This causes the hydrated kernels to pop before much pressure builds up inside the kernel.

**How do you know when popcorn is done popping?**

**Can you pop popcorn without oil in a popcorn machine?** With a microwave popcorn maker, you can use oil or not, though adding a teaspoon or so will help get more of the kernels to pop.

**How to work a popcorn machine?**

**Can I use popcorn machine to pop rice?** Barley, rice, quinoa, amaranth – you name it – can be quickly popped like corn. I just did this and it's delicious! Melissa Breyer is Treehugger's former senior editorial director.

**How many tablespoons of oil do I need for a popcorn machine?** It takes only a small amount of oil (1 tablespoon to 3 tablespoons.) according on how much popcorn you want that's up to 6 quarts of finished popcorn. Plus its very easy to add the amount of butter on the top.

**How to make tasty popcorn with a popcorn machine?**

**Can I use olive oil in a popcorn machine?** A: We have this popper and love it! I like to use canola oil and my husband likes the taste of olive oil when he makes it. We have tried the taste of flavored popcorn oils and don't like them. I am sure you will enjoy experimenting and discovering which you like best.

**What do movie theaters use for popcorn?** The most usual configuration for “movie theatre style popcorn” is: high quality corn. popped in coconut oil (it doesn't impart any coconut flavor but a high-fat oil is the most important ingredient in making something taste like “movie popcorn”) topped with salt.

**Can you use vegetable oil for a popcorn machine?** Our customer, Jamyce F, says canola oil is her go-to for making large batches of popcorn. “This canola oil is a fantastic product. I'm very pleased with the temperature that the oil can withstand. It

cooks very well and certainly lasts a long time,” said Jamyce.

### **How to make popcorn like the movie theater?**

**Can you use regular butter in a popcorn machine?** It is generally recommended to use oil rather than butter in a popcorn machine. Oil has a higher smoke point than butter, meaning it can be heated to a higher temperature without burning.

**Can you use Crisco to pop popcorn?** INGREDIENTS: 1/4 cup Crisco® Pure Organic Coconut Oil 1/2 cup popcorn kernels Salt PREPARATION DIRECTIONS: 1. HEAT coconut oil and popcorn kernels in covered 4-quart saucepan over medium high heat. 2. COOK 3 to 5 minutes, shaking occasionally, until popcorn stops popping.

**Is coconut oil good for popcorn machine?** Popcorn pops at a high temperature so you need an oil that won't burn the kernels in the process. That's why a high smoke point should be your top consideration when you choose an oil. Coconut oil fits the bill with a smoke point of 350°F (or 400°F for the refined type).

### **How do you use an American popcorn machine?**

**Can you use regular popcorn in a popcorn machine?** What kind of popcorn can you use? This machine works with any regular or premium brand of popcorn kernels. You can use any popcorn cooking oil, though the brand recommends coconut oil for best results.

**How do movie theater popcorn machines work?** Self-stirring electric, stovetop, and movie theater–style popcorn makers use of hot oil to cook kernels and have a stirring arm that keeps them in motion to heat evenly, prevent burning, and separate popped from unpopped kernels. Hot air makers blow hot air through the kernels to both cook and separate the popped ones.

### **How do you use a popcorn ball maker?**

**How do you air pop a popcorn machine?** Position a 4-quart heatproof bowl under the popping chute. Plug the popper into a 120V AC electrical outlet; popping will be complete within 2 to 3 minutes after popping begins. Drizzle melted butter onto popcorn and toss gently. Sprinkle with salt, if desired.

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**How do you use a rental popcorn machine?**

**How do you use a smart popcorn maker?** Stirring Bar ensures kernels pop thoroughly, and the Popcorn Maker works with any size kernels! Cover with vents doubles as a butter melting tray that adds butter as you cook. It's so easy: Just add oil, kernels, and press the Power Button!

**Can you use butter instead of oil in a popcorn machine?** A: Yes. I put 2 tablespoons of butter and 1/4 cup of popcorn in the bottom of the popper and pop until the popping slows down. It does nothing to harm the popper and as long as you don't overpop, the popcorn will not burn.

**How to work a popcorn machine?**

**What else can I pop in a popcorn machine?** Barley, rice, quinoa, amaranth – you name it – can be quickly popped like corn. I just did this and it's delicious!

**What is the secret ingredient in movie theater popcorn?** The flavor all comes down to one ingredient: Flavacol. You've likely never heard of Flavacol because, really, only movie theaters use it. Essentially, it's butter-flavored salt. It's a really fine, bright orange powder that adds that buttery flavor you crave and the signature yellow color.

**Why is movie theater popcorn better than regular popcorn?** Most commonly, it is all in the way that the kernels are prepared and popped that helps the finished product to taste the way it does in the theater. Some place their kernels in coconut and canola oil before popping them, which gives them a unique taste and helps make them sweet.

**How to make good popcorn in a popcorn machine?** Begin by heating up the popcorn machine for a few minutes. Once it's warm, add 2 tablespoons of coconut oil to the popper. The beta carotene in the coconut oil adds to the yellow coloring of the popcorn (secret number one). Also add in 1/4 teaspoon of the secret ingredient.

**How do you use a crank popcorn maker?**

**How do you use an easy pop popcorn maker?**

## How do you use an old school popcorn maker?

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