

Assignment: Compare and contrast the three types of matter. Compare means tell how they are alike and contrast means tell how they are different.

1. Compare and contrast two of the three types of matter using the Venn diagram. You may use the information on the hand out included in this packet.
2. Have your diagram checked over by your teacher and then write a compare and contrast essay on the same material. Use the instructions given in this packet. Write your essay on the paper provided.
3. Staple your Venn diagram to your essay and hand it in. Be sure both are labeled with your name, date, and the period that you have science.

II. Classification of Matter- All matter can be classified as an Element, a Compound, or a Mixture.

<i>Elements:</i> <i>Represented by symbols.</i> EX: H, He, Cu, Pb	<i>Compounds:</i> <i>Represented by Formulas.</i> Ex: H₂O, CO₂, H₂SO₄	<i>Mixtures:</i> <i>Represented by two or more formulas.</i> Ex: H₂O plus NaCl
<i>Made of all the same atoms:</i>	<i>Made of all the same molecules:</i>	<i>Made of different kinds of molecules.</i>
Samples <u>are</u> the same throughout. (Homogeneous)	Samples <u>are</u> the same throughout. (Homogeneous)	Samples <u>are not</u> the same throughout. (Heterogeneous)
Cannot be separated by physical means.	Cannot be separated by physical means.	Can be separated by physical means.
Examples: Gold, Silver, Iron, oxygen	Examples: Salt, Sugar, Hydrogen peroxide, Water, Aspirin.	Examples: Salad, trail mix, Raisin Bran, Koolaid.

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date March 16, 2007

Compounds

Mixtures

two or more

elements, that are
chemically combined

pure substance



a set of combined
ratios

they are
two types of
matter made of

two or more

things.

two or more

substances.

* not combined in

a set ratio

• heterogeneous

+
• homogeneous

Writing a Compare/Contrast essay

- Use your Venn diagram to collect your thoughts and list your ideas.
- Create a starter sentence for your introduction. (1st paragraph)
 - be sure to use proper name
 - Example 1: Compounds and Matter are both..., but they differ in ...
 - Example 2: While Compounds and Matter have ... in common, they also...
- Develop your essay by connecting your thoughts about each part of your starter sentence.
 - Start by explaining how they are alike. Make this your 1st paragraph after the introduction.
 - In a new paragraph write about their differences.
- Stop and review your writing. Take the time to edit what you wrote and be sure you include all of your points on the Venn diagram.
- Review and revise your draft after setting it aside for a day or two.

Compare/Contrast signal words:

alike, also, but, different, however, in contrast,
on the other hand, resemble, same as, similar

Science Essay Questions: Be sure to use the new vocabulary terms you learned. Never ever leave a blank. Grammar and punctuation tips are on the back of this sheet. Number each essay question properly.

Mixtures

Compounds and ~~Elements~~ are both two types of matter made of two or more things. They differ because Mixtures are two or more substances, and Compounds are two or more elements. Mixtures are NOT a set ratio and Compounds are set ratios.

COMPARE/CONTRAST COMPOSITION (6 - 8)

Task Component	4 Points Each	3 Points Each	2 Points Each	1 Point Each
Opening	Creatively begins with an interesting lead that thoroughly identifies the people, places or events as well as the central idea being examined	Begins with an appropriate opening statement that accurately identifies the people, places, events as well as the central idea being examined	Begins with an opening lead that just identifies the people, places or events being examined OR just identifies the central idea	Begins with an opening lead that does not fully identify the people, places or events being examined nor does the lead identify the central idea
Organization (See pattern types)	Effectively and accurately organizes the material in the correct compare/contrast pattern	Accurately organizes the material in the correct compare/contrast pattern	Organizes the material into a compare/contrast pattern but varies the patterns throughout the writing	Material is organized into a pattern that compares the items but does not contrast the items
Support	Provides well-developed and accurate support (examples, details, reasons) for each component being examined with the people, places or events.	Provides accurate support (examples, details, reasons) for each component being examined with the people, places or events	Provides some support (details, examples, reasons) that is accurate but also has some inaccurate support for the components being examined	Provides little if any support (examples, details, reasons) for the components being examined
Conclusion	Constructs a thorough closure to the writing that follows logically from the opening lead	Constructs an appropriate closure that follows logically from the opening lead	Constructs a closure that somewhat follows logically from the opening lead - may not be fully explained	Constructs a closure that does not follow logically from the opening lead