

**TEACHING TRANSPARENCY WORKSHEET**

**9**

# Types of Matter

**Use with Chapter 3,  
Section 3.4**

**1.** Into what two broad classes can all matter be divided?  
\_\_\_\_\_

**2.** What is the difference between a mixture and a pure substance?  
\_\_\_\_\_

**3.** What is the difference between a compound and an element?  
\_\_\_\_\_

**4.** Can a compound be a heterogeneous mixture? Explain your answer by referring to the diagram.  
\_\_\_\_\_

**5.** A list of compounds and elements is given below. Circle the substances that are elements.

- |       |          |          |
|-------|----------|----------|
| gold  | aluminum | water    |
| sugar | oxygen   | platinum |
| salt  | chlorine | brass    |

**6.** How can you tell the difference between a homogeneous mixture and a heterogeneous mixture?  
\_\_\_\_\_

**7.** Label each mixture below as either homogeneous or heterogeneous.

- |   |                              |
|---|------------------------------|
| <b>a.</b> air _____                           | <b>e.</b> finger paint _____ |
| <b>b.</b> clay _____                          | <b>f.</b> vinegar _____      |
| <b>c.</b> homemade lemonade (with pulp) _____ | <b>g.</b> soil _____         |
| <b>d.</b> oatmeal raisin cookie _____         |                              |

**8.** List three methods that are commonly used to separate mixtures into their component substances.  
\_\_\_\_\_

# Transparency Physics Answers

**Annette Schaper**



## **Transparency Physics Answers:**

INTERPRETABLE AI: TECHNIQUES FOR MAKING MACHINE LEARNING MODELS TRANSPARENT Dr. Aadam Quraishi MD, Shajeni Justin, Ismail Keshta, Dr. Haewon Byeon, 2024-01-10 The capacity to understand and have trust in the results generated by models is one of the distinguishing characteristics of high quality scientific research Because of the significant impact that models and the outcomes of modeling will have on both our work and our personal lives it is imperative that we have a solid understanding of models and have faith in the results of modeling This is something that should be kept in mind by analysts engineers physicians researchers and scientists in general Many years ago picking a model that was transparent to human practitioners or customers often meant selecting basic data sources and simpler model forms such as linear models single decision trees or business rule systems This was the case since selecting a model that was transparent required less processing power This was the situation as a result of the fact that picking a model that was transparent to human practitioners or customers in general entailed picking a model Even though these more easy approaches were typically the best option and even though they continue to be the best option today they are subject to failure in real world circumstances in which the phenomena being replicated are nonlinear uncommon or weak or very distinctive to particular individuals Despite the fact that they continue to be the best option they are sensitive to failure in these kinds of scenarios The conventional trade off that existed between the precision of prediction models and the simplicity with which they could be interpreted has been abolished nevertheless it is likely that this trade off was never truly required in the first place There are technologies that are now accessible that can be used to develop modeling systems that are accurate and sophisticated based on heterogeneous data and techniques for machine learning and that can also aid human comprehension of and

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