STEM NOTEBOOK

*Chemical Interactions*



Investigation 8: Solutions

BIG QUESTION: What properties define mixtures and solutions?

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| FOCUS QUESTION: What observations of mixtures can be made? |
| ***Observations of: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

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| ***Think of properties you can see*** *such as size, shape, color, lines, texture, pattern, behavior…* | I observed…

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| NaCl |
| CaCO3 |

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| ***Think of the other senses*** *of smell, sound, touch, and perhaps taste* | I noticed…

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| NaCl |
| CaCO3 |

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| *Connect it with something that you already know.* | It reminds me of…

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| NaCl |
| CaCO3 |

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| *Add more detail to support your statement.* | This is so because…

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| NaCl |
| CaCO3 |

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| *Be curious and ask questions you could investigate.* | I am curious about… I wonder what would happen if… |

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| PREDICTION: |
| PLAN | DATA |
| EXPLANATION |

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| FOCUS QUESTION: Can mixtures be separated? |
| PLAN | DATA |
| EXPLANATION: |
| EXTENSION: |

**FACT SWAP**

*Read: How Things Dissolve*

My Facts

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Facts from my Classmates

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| FOCUS QUESTION: What does it mean for a solution to be saturated? |
| Challenge: |
| PLAN | DATA |
| EXPLANATION: |
| EXTENSION: |

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| FOCUS QUESTION: Is the amount of substance that will dissolve in water the same for all substances? |
| Prediction: |
| PLAN | DATA |
| EXPLANATION: |
| EXTENSION: |

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| What Do You See? |
| What Do You Think? |
| What DO You Think Now? |

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| FOCUS QUESTION: How can you determine which solutions are more concentrated? |
| PLAN |
| DATA |
| EXPLANATION |
| EXTENSION |

WORD BANK/CONTENT

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| **SUMMARY GRAPHIC ORGANIZER** |
| *Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* |
| Main Idea |
| What are the 3 most important words in the Main Idea, and write them here:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Three Important Details1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| Summary of the Passage in ONE Sentence |

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| BIG QUESTION: What properties define mixtures and solutions? |
| CLAIM:I claimI claimI claim | EVIDENCE:I know this becauseI know this becauseI know this because |