| Name:<br>Reynolds, Moon | | Grading Quarter:<br>1 | Week Beginning: Week 5<br>9/2/24-9/6/24 |
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| School Year: 2024-2025 | | Subject: Science | |
| Monday | Notes:<br>**No School** | Objective:<br>• **No School**<br><br>Lesson Overview:<br>• **No School** | Academic Standards:<br>**No School** |
| Tuesday | Notes:<br>**Grade 5**<br>**Unit 1:**<br>Investigate Matter<br>**Lesson 2:**<br>Mixtures & Solutions<br>**Essential Question:**<br>What happens when different materials are mixed together?<br><br>(Lesson continued from last week) | Objective:<br>• Students will use mathematical and computational thinking to determine if mixing substances causes a change in mass.<br><br>Lesson Overview:<br>• Explain<br>○ Page 26-27- Inquiry Activity: *Mixtures in Action*<br>▪ Whole Group; Teacher Led; Student Discussion<br>▪ Make a Prediction: When you mix materials together, is the mass of the mixture the same or different than the sum of the mass of the original materials?<br>▪ Mixtures in Action simulation online<br>• Combine different materials to find the combined mass.<br>• Discuss what type of mixture occurred.<br>▪ Record Data<br>• Record results of the combined masses in chart.<br>• Think-Pair-Share which mixture was observed (heterogeneous, solution, colloid, or suspension).<br>▪ Communicate Information<br>• Have students discuss and explain if their predictions were correct. | Academic Standards:<br>**5. P1U1.2**<br>Plan and carry out investigations to demonstrate that some substances combine to form new substances with different properties and others can be mixed without taking on new properties. |

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| Wednesday | Notes:<br>**Grade 5**<br>**Unit 1:**<br>Investigate Matter<br>**Lesson 2:**<br>Mixtures & Solutions<br>**Essential Question:**<br>What happens when different materials are mixed together? | Objective:<br>• Students will use mathematical and computational thinking to determine if mixing substances causes a change in mass.<br>• Students will investigate if a mixture can be separated.<br>Lesson Overview:<br>• Elaborate<br>○ p.29 Inquiry Activity: *Separate Mixtures*<br>▪ Materials:<br>• Safety goggles<br>• 1 cup of sand<br>• 1 cup of gravel<br>• 1/8 cup of small ball bearings<br>• 2 bowls<br>• Spoon<br>• Sieve<br>• Magnet<br>▪ Make a Prediction: Can a mixture of sand, gravel, and small ball bearings be separated? Why or why not?<br>▪ Plan an Investigation<br>• Students work in groups to plan how to combine the materials.<br>• Students discuss and plan out how to separate the materials using the provided tools.<br>• Students test out their plan using the provided materials and tools.<br>▪ Talk About It<br>• Students share their group's plan and results to see what the others tried and see who was successful. | Academic Standards:<br>**5. P1U1.2**<br>Plan and carry out investigations to demonstrate that some substances combine to form new substances with different properties and others can be mixed without taking on new properties. |

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| Thursday | Notes:<br>**Grade 5**<br>**Unit 1:**<br>Investigate Matter<br>**Lesson 2:**<br>Mixtures & Solutions<br>**Essential Question:**<br>What happens when different materials are mixed together? | Objective:<br>• Students will use mathematical and computational thinking to determine if mixing substances causes a change in mass.<br><br>Lesson Overview:<br>• This lesson will be used as a review before tomorrow's quiz.<br>• Evaluate<br>○ p. 30-32<br>▪ p. 30 Summarize It<br>• Students will use what they have learned about in this lesson to explain the phenomenon we observed on p. 19<br>▪ p. 31 Three-Dimensional Thinking<br>• Students will answer questions displaying their understanding of what a mixture/solution is and how they work.<br>▪ p. 32 Extend It<br>• Students will work together to apply what they have learned to a real-world situation of if they had created a pill that cures the flu.<br>• They will explain how that is possible and give a compelling case of how that would be beneficial to society. | Academic Standards:<br>**5. P1U1.2**<br>Plan and carry out investigations to demonstrate that some substances combine to form new substances with different properties and others can be mixed without taking on new properties. |
| Friday | Notes:<br>**Grade 5**<br>**Unit 1:**<br>Investigate Matter<br>**Lesson 2:**<br>Mixtures & Solutions<br>**Essential Question:**<br>What happens when different materials are mixed together? | Objective:<br>• Students will use mathematical and computational thinking to determine if mixing substances causes a change in mass.<br><br>Lesson Overview:<br>• Unit 1 Lesson 2 Quiz | Academic Standards:<br>**5. P1U1.2**<br>Plan and carry out investigations to demonstrate that some substances combine to form new substances with different properties and others can be mixed without taking on new properties. |