**Table 2: *Stage One***

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| **Stage 1 Desired Results** |
| ESTABLISHED GOALS - #1 **K-PS1-1(MA). Design and conduct an experiment to test the idea that different kinds of materials can be a solid or liquid depending on temperature.** [Clarification Statement: Materials chosen must exhibit solid and liquid states in a reasonable temperature range for Kindergarten students (e.g., 0-80°F), such as water, crayons or glue sticks.] [Assessment Boundary: Only a qualitative description of temperature, such as hot, warm, and cool, is expected.] | ***Transfer*** |
| *Students will be able to independently use their learning to* |
| ***Meaning*** |
| UNDERSTANDINGS *Students will understand that…*1. Temperature is a condition of the amount of/or lack of heat
2. Temperatures affects materials differently
 | ESSENTIAL QUESTIONS*Students will keep considering…* 1. How does temperature affect different kinds of materials?

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| ***Acquisition*** |
| KNOWLEDGE*Students will know…* 1. A thermometer tells us whether something is hot, warm or cool
2. Different kinds of matter exist and many of them can be solid or liquid, depending on temperature.
3. What is a solid and what is a liquid
4. Heat can create a liquid
5. Cold can create a solid
6. How to conduct an experiment to determine if a solid or liquid is affected by a chosen temperature

Vocabulary: hot, warm, cool, cold, thermometer, solid, liquid  | Science Practice1. Asking questions (for science) and defining problems (for engineering)
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations (for science) and designing solutions (for engineering)
7. Engaging in argument from evidence
8. Obtaining, evaluating, and communicating information
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**Table 3: *Stage Two***

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| **Stage 2 – Evidence** |
| **Coding** | **Evaluative Criteria** | **Assessment Evidence** |
|  |  | PERFORMANCE TASK(S):In winter, put a cup of water outsideStudents will make a prediction and draw/write what will happenCheck the cup every hour and have students record their observations   |
|   |  | Suggested Resources: |