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| **Thinking and Investigation** – *The use of critical and creative thinking skills / or processes* | | | | | | |
| **Categories** | | **Level 0**  **0 – 49%** | **Level 1**  **50 – 59%** | **Level 2**  **60 – 69%** | **Level 3**  **70 – 79%** | **Level 4**  **80 – 100%** |
| **Method (traditional vs. pipeline)** | | Initiating and planning skills have not been used with any effectiveness | Uses initiating and planning skills and strategies with limited effectiveness | Uses initiating and planning skills and strategies with some effectiveness | Uses initiating and planning skills and strategies with considerable effectiveness | The method chosen is appropriate for the situation |
| **Trees Tapped** | | Fewer than half of the maple trees in the area that meet the criteria have been tapped | Half of the maple trees in the area that meet the criteria have not been tapped | Two maple trees in the area that meet the criteria have not been tapped | All but one of the maple trees in the area that meet the criteria have been tapped | All maple trees in the area that meet the criteria have been tapped |
| **Safe and Responsible Use of Equipment** | | Safe and responsible use of equipment was not evident | Safe and responsible use of equipment was sometimes evident | Safe and responsible use of equipment was often evident | Safe and responsible use of equipment was almost always evident | Safe and responsible use of equipment was always evident |
| **Application** – *The use of knowledge and skills to make connections within and between various contexts* | | | | | | |
| **Categories** | **Level 0**  **0 – 49%** | | **Level 1**  **50 – 59%** | **Level 2**  **60 – 69%** | **Level 3**  **70 – 79%** | **Level 4**  **80 – 100%** |
| **Maple Tree Identification**   * **Sugar, black or Norway maple** * **Tree diameter is greater than 10”** | More than half of the trees tapped are not the correct type of maple | | Half of the trees tapped are not the correct type of maple | Two of the trees tapped are not the correct type of maple | One of the trees tapped is not the correct type of maple | All of the trees tapped are the correct type of maple |
| **Spiles**   * **The south side has been tapped** * **6” from previous taps** * **1.5” to 2” deep** * **Slight downward angle** | Less than half of the spiles have been installed correctly | | Half of the spiles have been installed correctly | Some of the spiles have been installed correctly | Most of the spiles have been installed corrected | All spiles have been installed correctly |
| **Pipeline Installation**   * **Pipelines do not sag** * **Pipelines are attached tightly** * **Pipeline is not wasted** | Less than half of the pipelines have been installed correctly | | Half of the pipelines have been installed correctly | Some of the pipelines have been installed correctly | Most of the pipelines have been installed correctly | All of the pipelines have been installed correctly |
| **Pail Installation**   * **All pails have lids** * **Pails are stable** | Less than half of the pails have been installed correctly | | Half of the pails have been installed correctly | Some of the have been installed correctly | Most of the pails have been installed correctly | All of the pails have been installed correctly |