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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 |