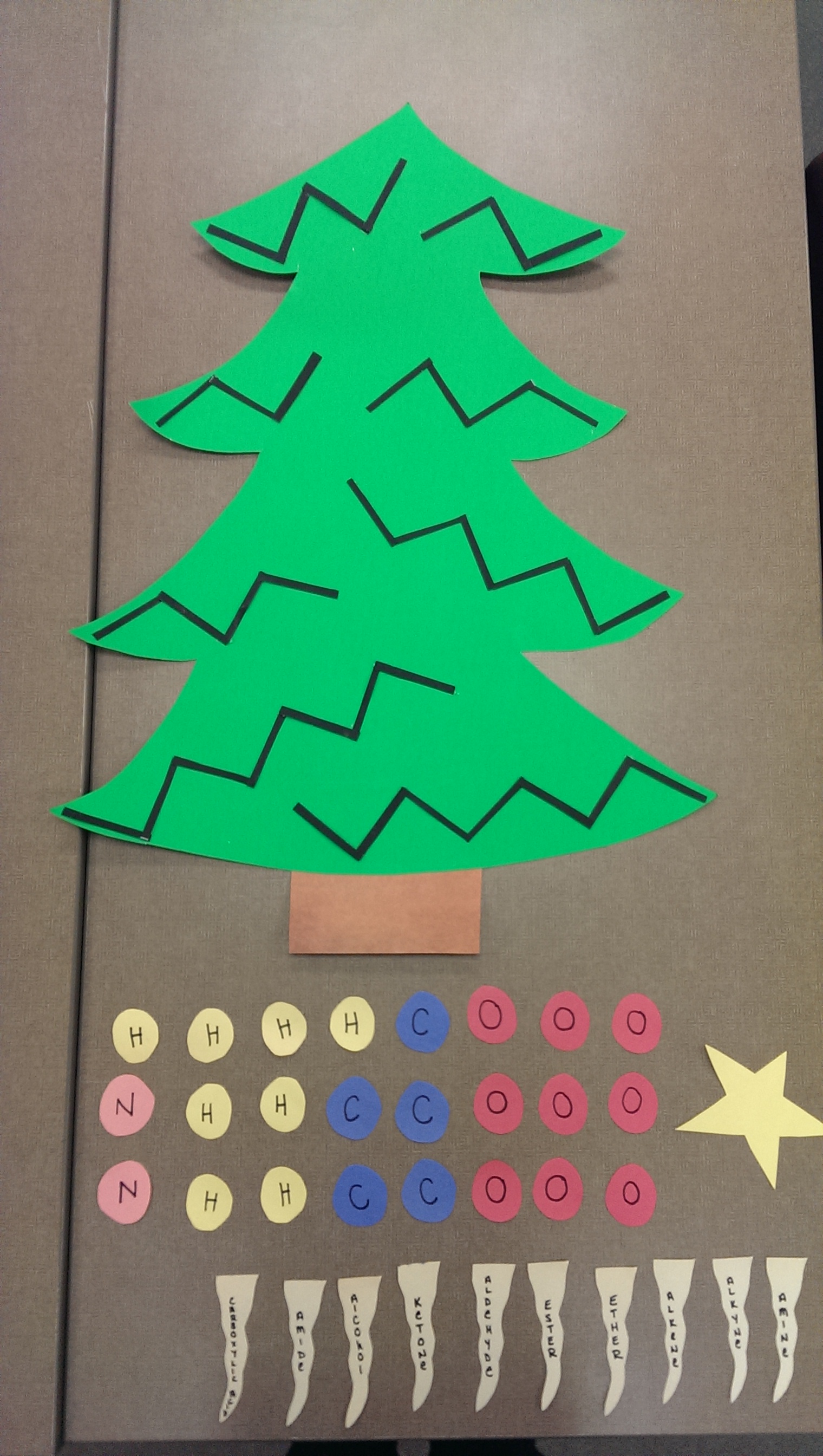
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Criteria** | **Grade** | | | | **Comments** | |
| **1** | **2** | **3** | **4** | |  |
| **Thinking/Inquiry** | No evidence that the student understands the method to naming functional groups.  The student cannot distinguish between different groups and cannot name different physical properties. | Some evidence that the student understands the method to naming functional groups. The student somewhat distinguishes between different groups and can name few physical properties. | Evidence that the student understands the method to naming functional groups. The student can distinguish between different groups and can name most physical properties. | Detailed evidence that the student understands the method to naming functional groups. The student can distinguish between all different groups and can name all physical properties | |  |
| **Application** | Does not apply appropriate use of naming, no creativity, little detail provided, and failure to use all key terms. | Applies minimal amount of appropriate naming, some creativity is used, some details are provided, and used few key terms. | Applies appropriate use of naming, creativity is used, details are provided, and all key terms are used. | Applies accurate and detailed use of naming, creativity is used for complex structures, details are provided for structures and properties, and all key terms are used accurately. | |  |
| **Communication** | Cannot communicate the differences in physical properties between each functional group and does not provide any common examples.  ChemisTREE is lacking organization and clarity. | Minimal communication of the differences in physical properties between each functional group and shows attempt at providing common examples.  ChemisTREE is fairly organized, somewhat clear to read. | Correct communication of the differences in physical properties between each functional group and provides simple common examples.  ChemisTREE is organized and clear to read, but missing minor details. | Precise communication of the differences in physical properties and an explanation of each and provides unique common examples.  ChemisTREE is very organized and very clear. Atoms (ornaments) are colour coded. | |  |
| **Knowledge** | Shows a lack of knowledge for different functional groups, properties, and naming. | Shows a minimal amount of knowledge for different functional groups, properties, and naming. | Shows a decent amount of knowledge for different functional groups, properties, and naming. | Shows a detailed amount of knowledge for different functional groups, properties, and naming. | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Structure | 2 Physical Properties | Common Example and its Use |
| Alcohol |  |  |  |
| Ketone |  |  |  |
| Aldehyde |  |  |  |
| Ester |  |  |  |
| Ether |  |  |  |
| Carboxylic Acid |  |  |  |
| Amine |  |  |  |
| Amide |  |  |  |



**Star**

**Icicle**

**Ornament**

Stencils

