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|  **Matter & Interactions** |
| **Topic: MS-PS1-1: Develop models to describe the atomic composition of simple molecules & extended structures** |
| **Grade: 6th Grade Science** |
| **Score 4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught.** | **Sample Activities** |
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|  | **3.5** | In addition to score 3.0 performance, in-depth inferences and applications with partial success. |  |
| **Score 3.0** | **The student:*** Constructs models of molecules from a molecular formula
* Construct models of a network solid (salt, diamond, etc.)
* Constructs model of an atom including subatomic particles

**The student exhibits no major errors or omissions.** |  |
|  | **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content. |  |
| **Score 2.0** | **There are no major errors or omissions regarding the simpler details and processes as the student:*** recognizes or recalls specific terminology, such as:
	+ structural & molecular formula
	+ atom, element, molecule, compound
	+ proton, neutron, electron, nucleus
	+ chemical bond
	+ subscript
* performs basic processes, such as:
	+ counts numbers and types of atoms in a molecular formula

**However, the student exhibits major errors or omissions regarding the more complex ideas and processes.** |  |
|  | **1.5** | Partial knowledge of the 2.0 content, but major errors or omissions regarding the 3.0 content. |  |
| **Score 1.0** | **With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.** |
|  | **0.5** | With help, a partial understanding of the 2.0 content, but not the 3.0 content. |
| **Score 0.0** | **Even with help, no understanding or skill demonstrated.** |