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| **Investigating Geometric Attributes of 3-D Solids** |
| Identifies and describes geometric attributes of individual solids “This 3-D solid has 2 square bases, 4 rectangular faces, 12 edges, and 8 vertices.”Or “This 3-D solid has 2 rectangular bases, 2 square faces, 2 rectangular faces, 12 edges, and 8 vertices.” | Groups solids that share the same geometric attributes“All these solids have the same geometric attributes, so they are all square-based prisms.” | Builds solids based on given geometric attributes“I made a square pyramid. It has 4 triangle faces and 1 square base.” | Sorts, classifies and names solids using geometric attributes “All pyramids have faces that are triangles.” |
| **Observations/Documentation** |
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| **Composing and Decomposing 3-D Solids** |
| Constructs skeletons of 3-D solids by decomposing solids into 2-D shapes and matching “I started by making a square as the base, then added the triangular faces.” | Identifies nets of 3-D solids by folding“I folded this net and made a square-based pyramid.” | Recognizes nets of 3-D solids by decomposing and matching (visualization)“When I imagine folding it in my mind, I see the triangles wrapping around the square to make a pyramid.” | Constructs and deconstructs solids flexibly using skeletons and nets“This net will make a cylinder, but I can’t make a skeleton of a cylinder because it doesn’t have vertices and edges.” |
| **Observations/Documentation** |
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