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The first constraint is given for you.#1:
Apply a Mate constraint between surface 6 (Key) and surface 2 (Shaft). 3. Assemble Hinge Plate 2 to Hinge Plate 1 so that surfaces C and D form an angle of 80° .

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Reference the numbered surfaces and edges to fully explain your assembly constraints. Discuss. 4.

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Use the engineering design process to answer the following questions: a. What is one constraint the student should consider as she rebuilds the table? Answer: She should consider what items she will place

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on the table and where they will be placed, so she can be sure that the table design will hold the weight. b.

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a design brief that challenges the designer, describes what a design solution should do without describing how to solve the problem, and identifies the degree to which the solution must be executed.

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plastic and sheet metal components.

Desired outcomes and usage competencies are listed for each project. The book is divided into five sections with 11 projects.

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parts and assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and Revision tables using basic and advanced features. Additional techniques include the edit and reuse of features, parts, and assemblies through symmetry, patterns, configurations, SOLIDWORKS 3D

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(the organization that accredits most US engineering, computer science, and technology programs and equivalency evaluations to international engineering programs) and integrates the educational practices of the Association of American Colleges and Universities (AAC&U). The book provides learning objectives aligned

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Approach serves as an aid to both instructor and student in developing competencies and skills required by ABET and AAC&U.

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