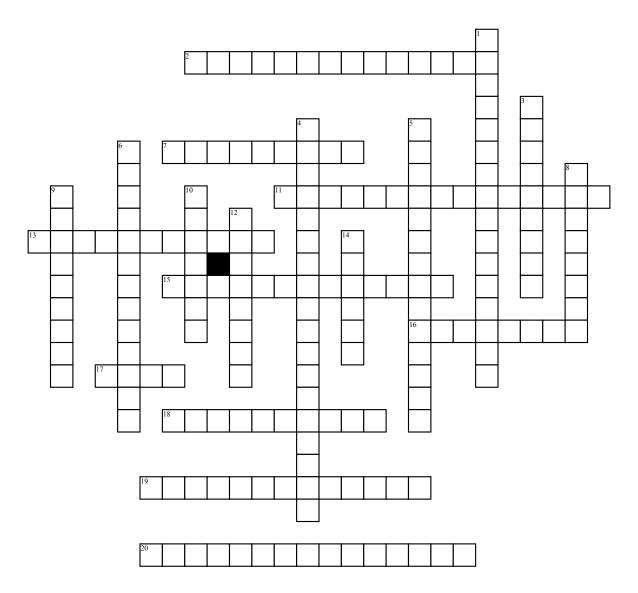
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Statistics and Kinematics



Across

a common goal.

- **2.** A person or group for which product or service design efforts are intended.
- 7. A part or element of a larger whole.
- 11. A sketch that shows an object's height, width, and depth in a single view.
- 13. A written plan that identifies a problem to be solved, its criteria, and its constraints. The design brief is used to encourage consideration of all apects of a problem before attempting a solution.
- **15.** A type of 3D CAD modeling that represents the volume of an object, not just its lines and surfaces. This allows for analysis of the object's mass properties.
- 16. A group of machined or handmade parts that fit together to form a self-contained unit.

 17. A collection of individuals, each with his or her own experties, brought together to benefit

- **18.** A limit to a design process. Constraints may be such things as appearance, funding, space, materials, and human capabilities.
- 19. A group technique for solving problems, generating ideas, stimulating creative thinking, ect., by unrestrained spontanious participation in disscusion.
- **20.** A part of a design brief that challenges the designer, describes what a design solution should do without describing how to solve the proble, and identifies the degree to which the solution must be executed.

Down

- 1. A part of a desighn brief that clearly and conciously identifies a client's or target consumer's problem, need, or want.
- **3.** A general agreement
- **4.** A major or minor change in the design of an item, effected in order to correct a deficiency, to facilitate production, or to improve operational effectiveness.

- **5.** A tool for systematically ranking alternatives according to a set of criteria.
- **6.** A systematic problem-solving strategy, with criteria and constraints, used to develop many possible solutions to solve a problem or satisfy human needs and wants and to narrow down the possible solutions to one final choice.
- **8.** The conditon or quality of being true, correct, or exact; precision; exactness.
- 9. Not having fixed limits; unrestricted;
- **10.** The reason for which something is done or for which something exists.
- 12. A person who designs any of a variety of things. This usually implies the task of creating drawings or in some way using visual cues to organize work.
- **14.** A rough drawing representing the main features of an object or scene and often made as a preliminary study.