

Lego Challenge: Engineering Escapes

Your Challenge!

A LEGO person gets stuck at the bottom of a Canyon (a trashcan). Can you devise a solution using LEGOs to get the LEGO man out of the "trash canyon"?



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Reflection Questions

What should I do first?

Is something confusing me?

Could I explain this to someone else?

Where can I look for help?

How can I do it better?

Engineering Goals:

- Learning to design a product to solve a problem that a specific client has
- Learning that there is no one "correct" solutions, but rather infinite ways to successfully solve the problem.

Things to consider

A crane is a type of machine, generally equipped with a hoist rope, wire ropes or chains, and sheaves, that can be used both to lift and lower materials and to move them horizontally. It is mainly used for lifting heavy things and transporting them to other places.

An elevator or lift is a vertical transport vehicle that efficiently moves people or goods between floors of a building. They are generally powered by electric motors that either drive traction cables and counterweight systems, or pump hydraulic fluid to raise a cylindrical piston.

A stairway, staircase, stairwell, flight of stairs, or simply stairs, is a construction designed to bridge a large vertical distance by dividing it into smaller vertical distances, called steps. Stairs may be straight, round, or may consist of two or more straight pieces connected at angles.

Ladders: a piece of equipment consisting of a series of bars or steps between two upright lengths of wood, metal, or rope, used for climbing up or down something.