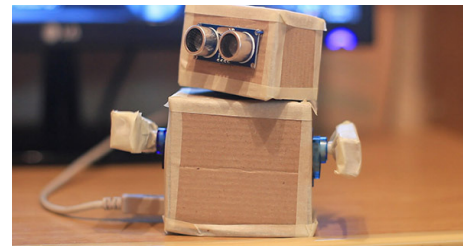


Robots: Unplugged!

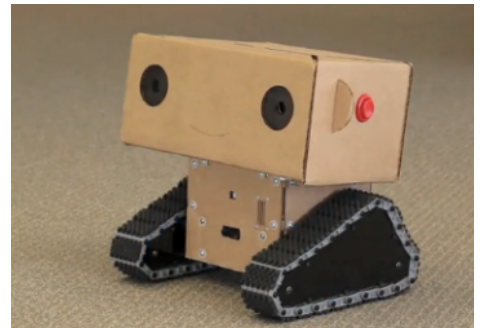
Your challenge:

Use cardboard, recyclables and art supplies to create your own robot (WITHOUT motors or batteries).



Questions:

Can it move? What sounds would it make? What would your robot be used for?



Computational Thinking Skills:

Open-ended project with opportunity to engage in the design process: identify a problem, brainstorm, design, build, test and evaluate, redesign, rebuild, share solution.



Real World Application:

Structural engineering: Usually regarded as part of civil engineering, structural engineering involves the design of buildings, large structures and other things that rely on the importance of structural integrity. Structural engineers must pay particular attention to safety because of the huge loads involved.

Civil engineering includes the design and construction of buildings, roads, bridges and dams. It is one of the oldest forms of engineering and involves further specialist areas such as transportation, water resources, surveying and construction.