

Build it Light

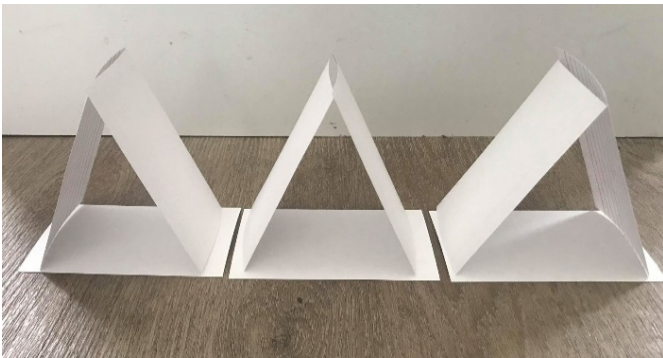
Suggested Materials:

- A flat surface (floor, countertop or table)
- Deck of cards, flashcards, index cards or card-sized rectangles cut from a thin cardboard box

Directions:

Stack your cards. (*Hint: most structures stack best with a base.*)

Challenge yourself. How high can you stack the cards? Can you build a structure strong enough to hold a coin? A rock? How many ways can you build a structure?



Build It Tall

Suggested Materials:

- Books
- CD cases
- Blu-ray or DVD cases
- Plastic cups
- Plastic containers
- Painter's tape (optional)



Directions:

Set a challenge. Choose a stacking goal from something in the room, like building a structure as tall as a table, or **ask a grownup at home** if you can mark a stacking goal on the wall with painter's tape. See if you can reach your goal. Does the structure stay together? If not, how can you fix it? Measure your structure using a ruler or measuring tape.



Links to eResources:

[Engineering](#) | [Cardboard Projects](#) | [Big Box Projects](#)

Watch Roberto the Insect Architect on [Kanopy Kids](#).

You can get a library card at hpl.ca/online-registration.

If you would like to share one or all your creations, please take a picture and post it to social media using the hashtag, #HPLmakesomething.



#HPLmakesomething

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