

Build a device that stores energy and then releases it to make a ball move.

You'll need some basic building materials and at least one ball. Use what you have and be creative!



Building Materials	Connectors	Balls
<ul style="list-style-type: none"> • Paper and cardboard • Paper cups or bowls • Craft sticks • Straws • chopsticks 	<ul style="list-style-type: none"> • Pipe cleaners • Rubber bands • Binder clips • Paper clips • String • Clothes pins 	<ul style="list-style-type: none"> • Tennis, ping pong, whiffle, handball or any other ball you have handy

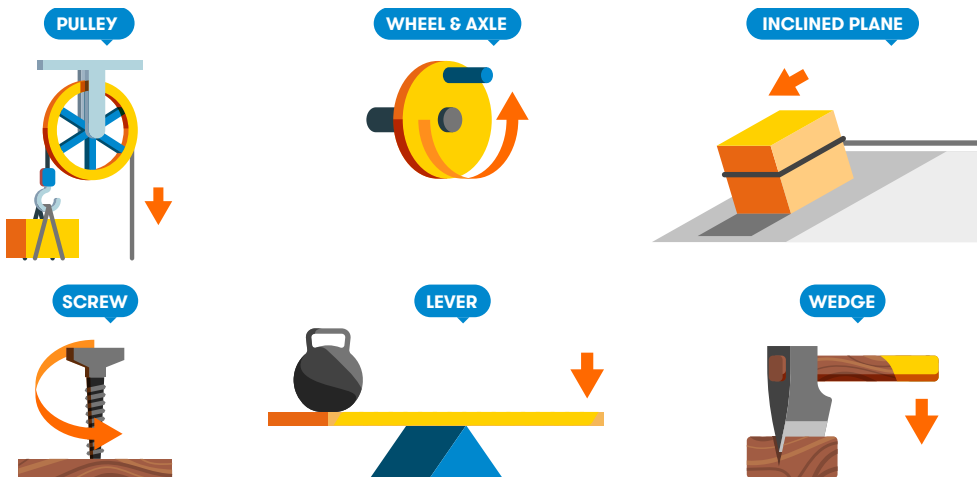


No tape or glue! Why? Because building without tape or glue lets you change your designs faster and makes it easier to reuse materials.

Ready, set, build!

1. Brainstorm how you will store energy in your device.
2. Consider the simple machines you might use.
3. Build a device that stores energy.
4. Have the device release the energy to move a ball at least 6 inches.

Examples of Simple Machines



Bonus challenges

- Make a target and hit it.
- Try using a different ball and see what happens.
- Make a chain reaction by transferring the stored energy multiple times.
- Add sounds to your device. How many sounds can it make?

Questions to ask yourself:

- How can I make the ball move without touching it?
- What other materials do I wish I had?