

# The Tech Challenge

Presented by Amazon

# Make it move!

Ready for a little Tech Challenge fun?  
Let's have some fun with energy!

Created May 2022

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

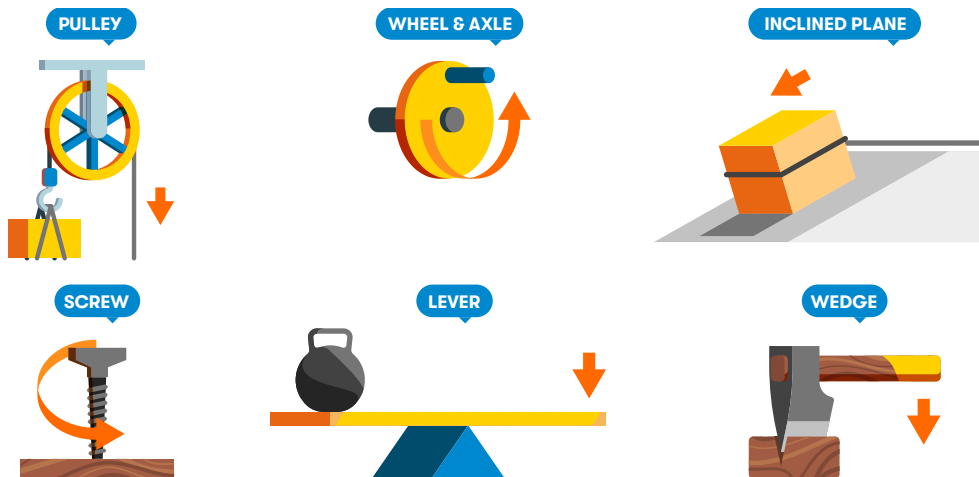


**No tape or glue!** Why? Because building without tape or glue lets you change your designs faster and makes it easier to reuse materials.

## 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?

Share what you build on Facebook using **#TheTechChallenge**

[thetech.org/techchallenge](http://thetech.org/techchallenge)