

# Lesson 1: One-Way Curtain

## Build



## Discuss

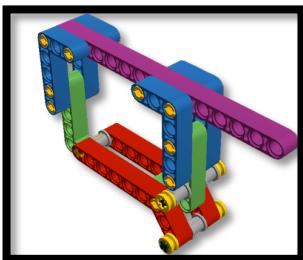
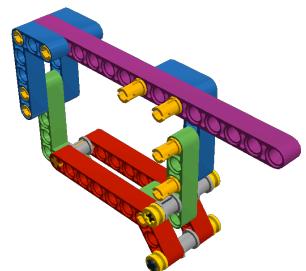
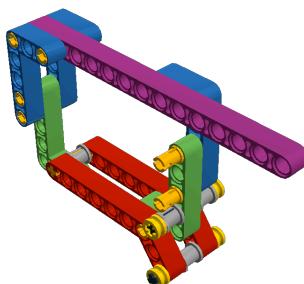
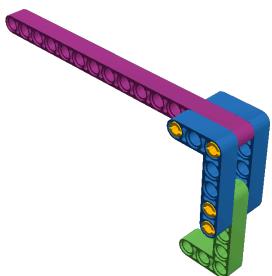
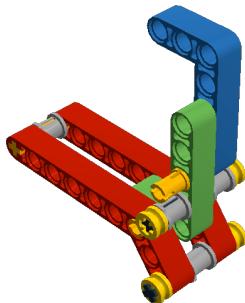
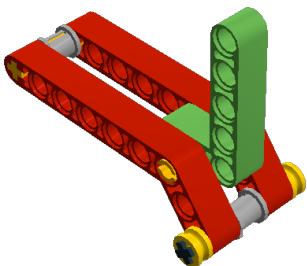
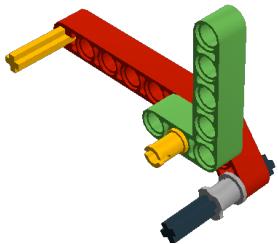
- How does this work?
- How can it be useful?
- Where could we apply this technique?
- Watch:  
<https://youtu.be/2P1EREM1Yzc?t=47>

## Apply

- Now build a full mechanism that uses this concept
- Modify the concept to fit your needs

# Lesson 2: Carabiner

## Build



Add rubber  
bands on  
bushings

## Discuss

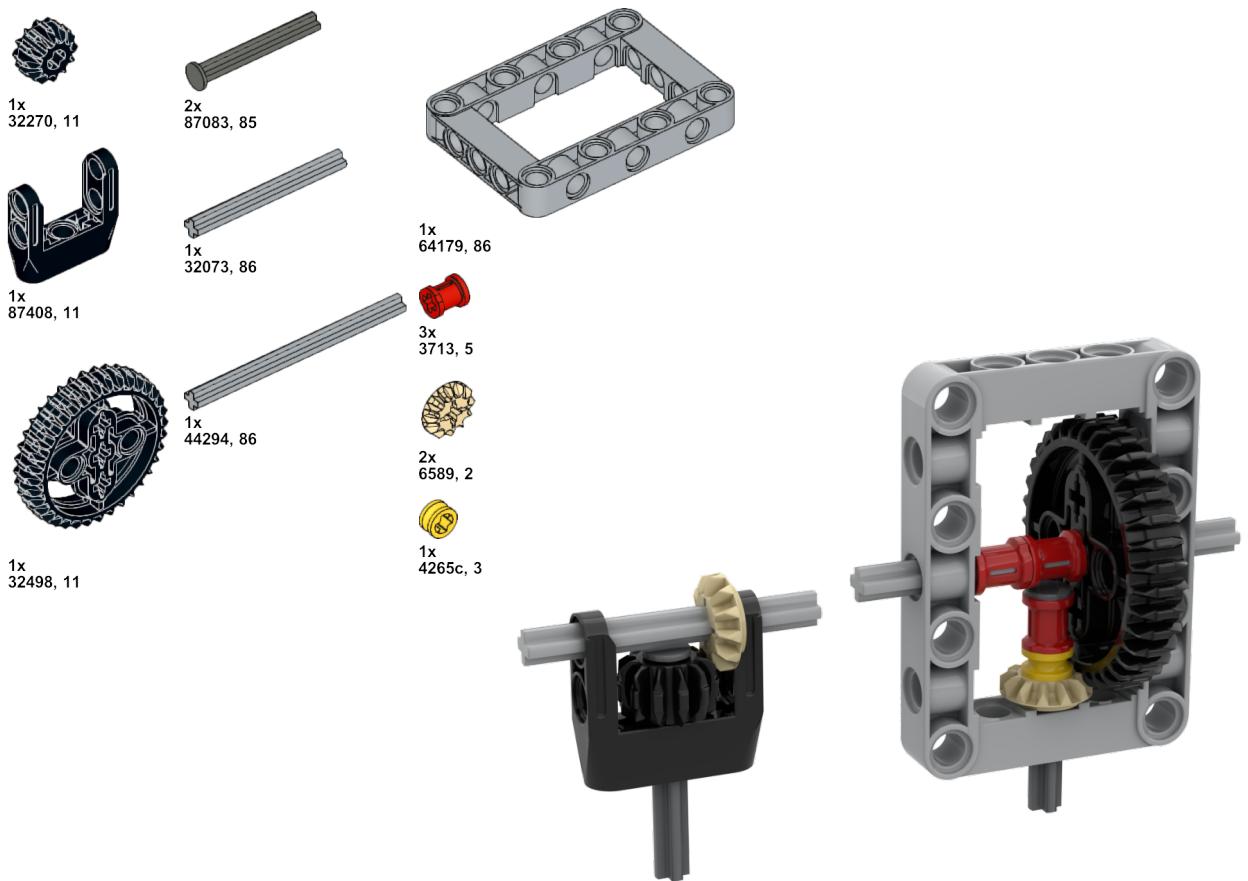
- How does this work?
- How can it be useful?
- Where could we apply this technique?
- Watch:  
<https://youtu.be/Mjp9holZ0dY?t=35>

## Apply

- Now build a full mechanism that uses this concept
- Modify the concept to fit your needs

# Lesson 3: Gear Box

## Build



## Discuss

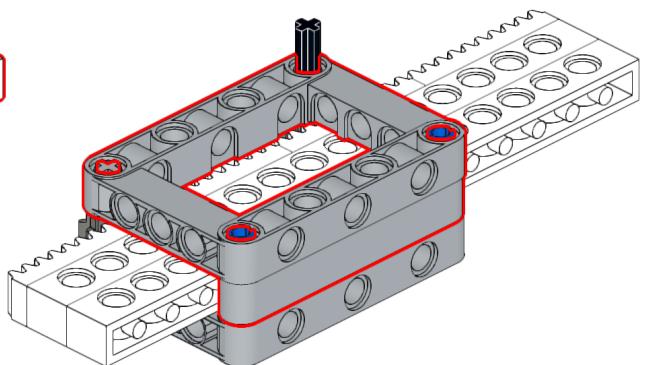
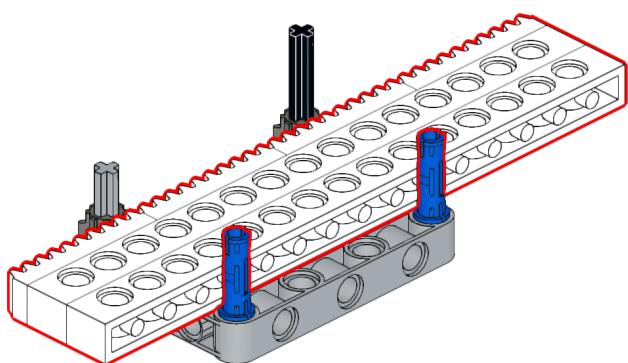
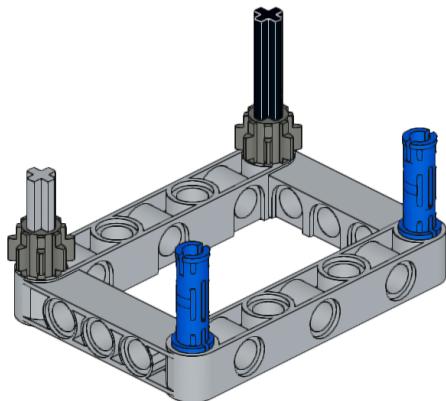
- How does this work?
- How can it be useful?
- Where could we apply this technique?
- Watch:  
<https://youtu.be/2P1EREM1Yzc?t=23>

## Apply

- Now build a full mechanism that uses this concept
- Modify the concept to fit your needs

# Lesson 4: Rack Gear

## Build



## Discuss

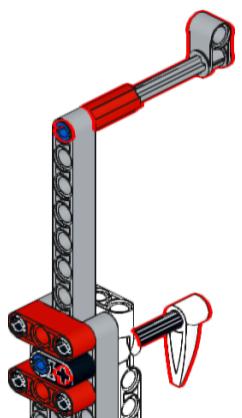
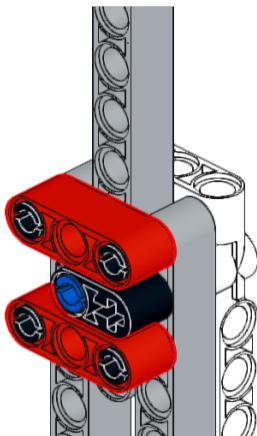
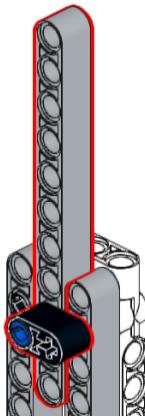
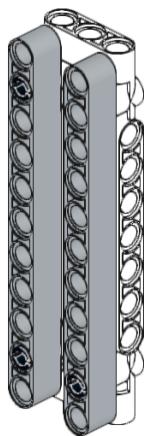
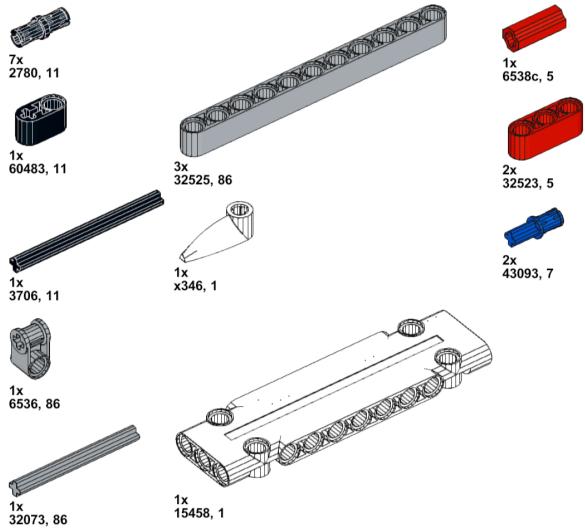
- How does this work?
- How can it be useful?
- Where could we apply this technique?
- Watch:  
<https://youtu.be/GI5L2B2jTEI?t=19>

## Apply

- Now build a full mechanism that uses this concept
- Modify the concept to fit your needs

# Lesson 5: Gravity

# Build



# Discuss

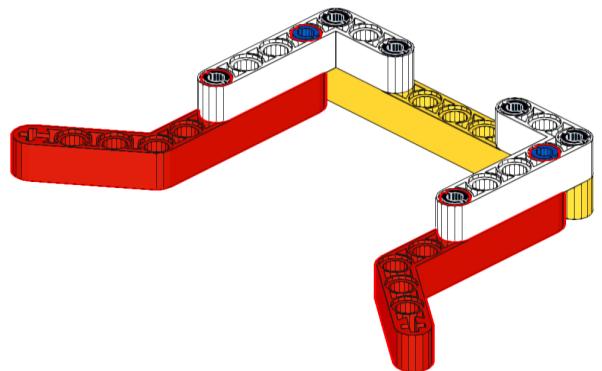
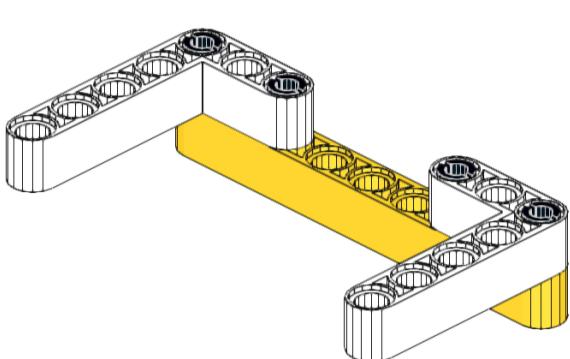
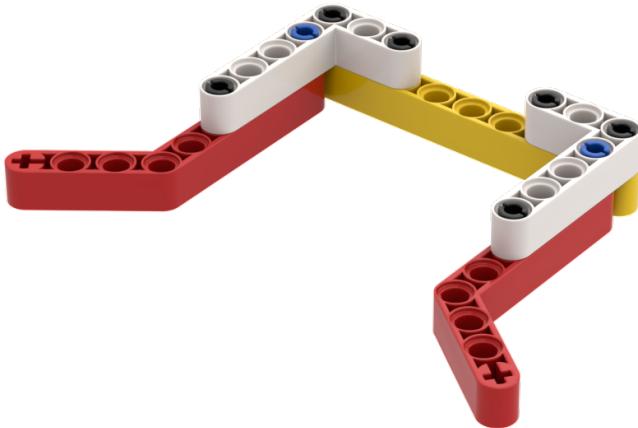
- How does this work?
  - How can it be useful?
  - Where could we apply this technique?
  - Watch:  
<https://youtu.be/dJSeMeAGmXE?t=113>

## Apply

- Now build a full mechanism that uses this concept
  - Modify the concept to fit your needs

# Lesson 6: Aligners

## Build



## Discuss

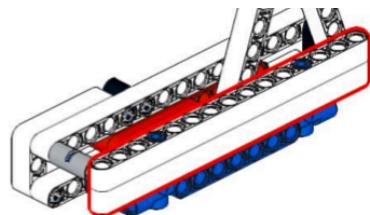
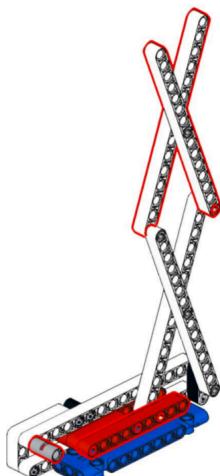
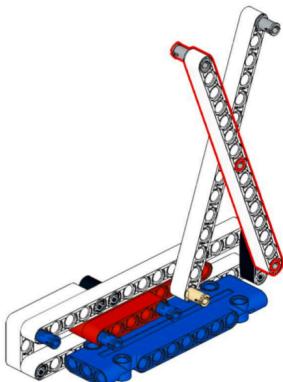
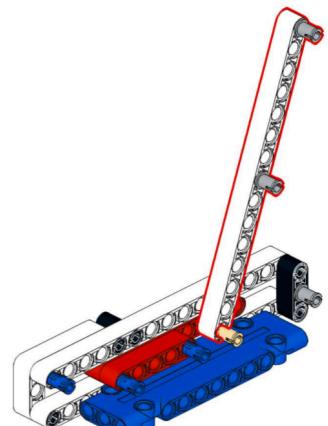
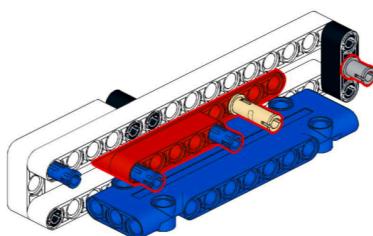
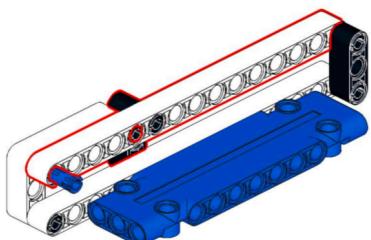
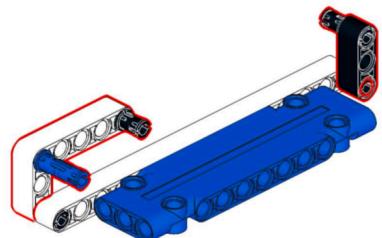
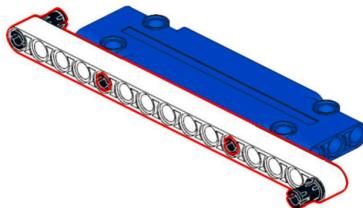
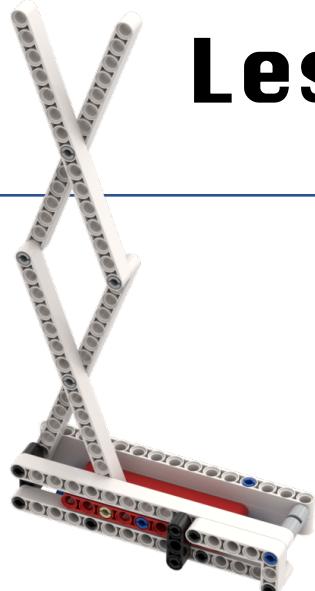
- How does this work?
- How can it be useful?
- Where could we apply this technique?
- Watch:  
<https://youtu.be/Mjp9holZ0dY?t=75>

## Apply

- Now build a full mechanism that uses this concept
- Modify the concept to fit your needs

# Lesson 7: Scissors

## Build



## Discuss

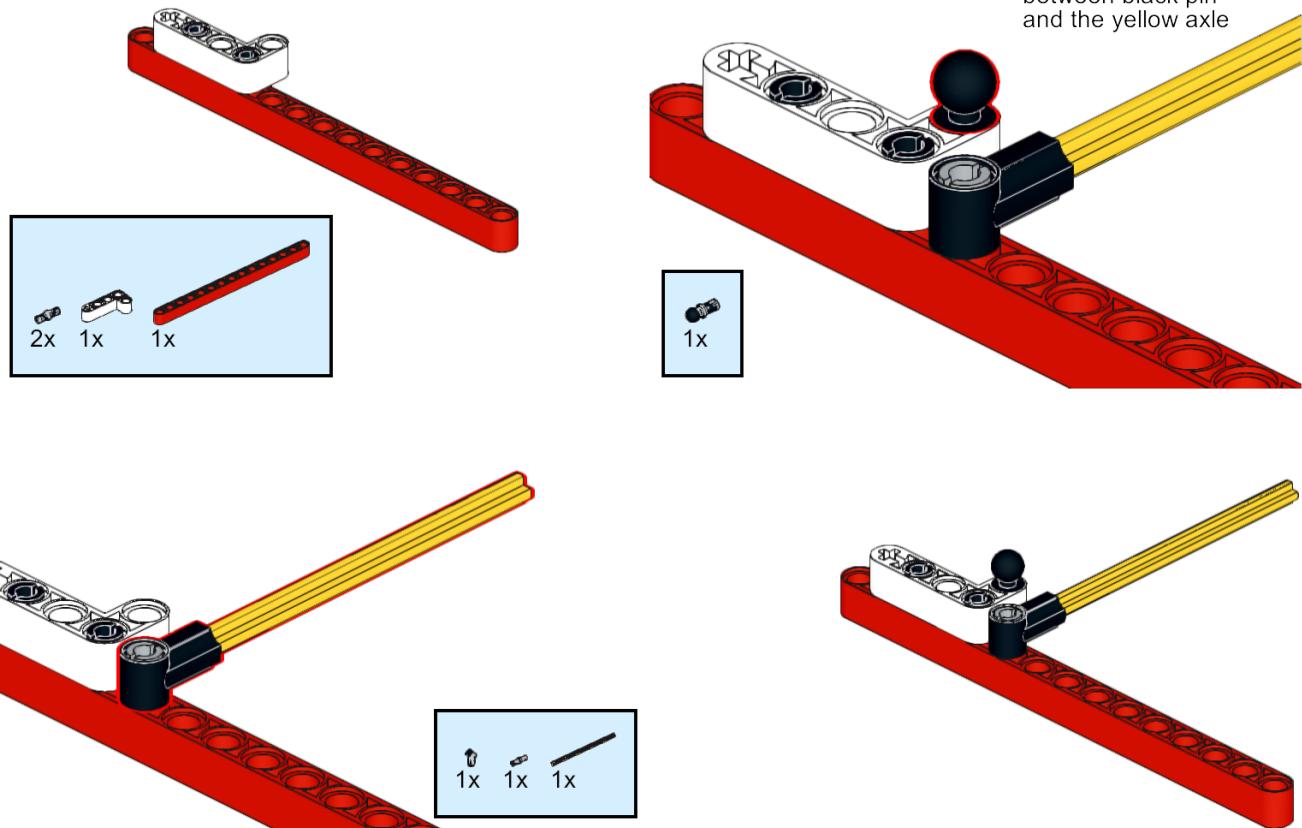
- How does this work?
- How can it be useful?
- Where could we apply this technique?
- Watch:  
<https://youtu.be/dJSeMeAGmXE?t=113>

## Apply

- Now build a full mechanism that uses this concept
- Modify the concept to fit your needs

# Lesson 8: Auto-Retracting Lever

## Build



## Discuss

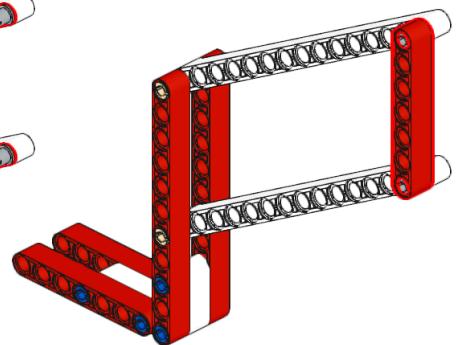
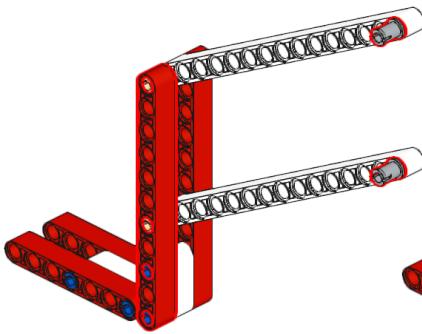
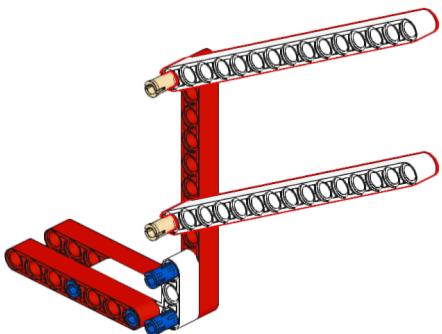
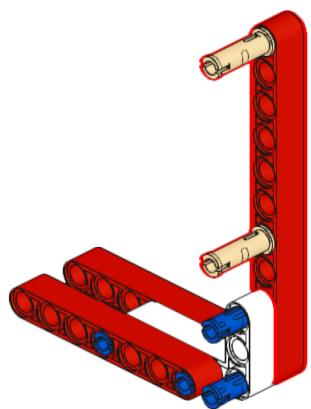
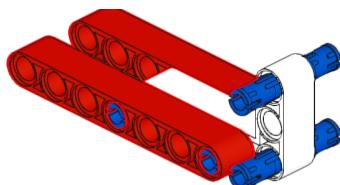
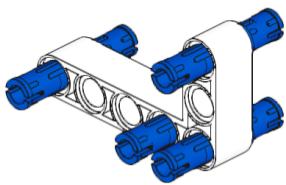
- How does this work? Can it work without the rubber band?
- How can it be useful?
- Where could we apply this technique?
- Watch:  
<https://youtu.be/Mjp9holZ0dY?t=73>

## Apply

- Now build a full mechanism that uses this concept
- Modify the concept to fit your needs

# Lesson 9: Parallel 4 Bar Linkage

## Build



## Discuss

- How does this work?
- How can it be useful?
- Where could we apply this technique?
- Watch:  
<https://youtu.be/GI5L2B2jTEI?t=115>

## Apply

- Now build a full mechanism that uses this concept
- Modify the concept to fit your needs