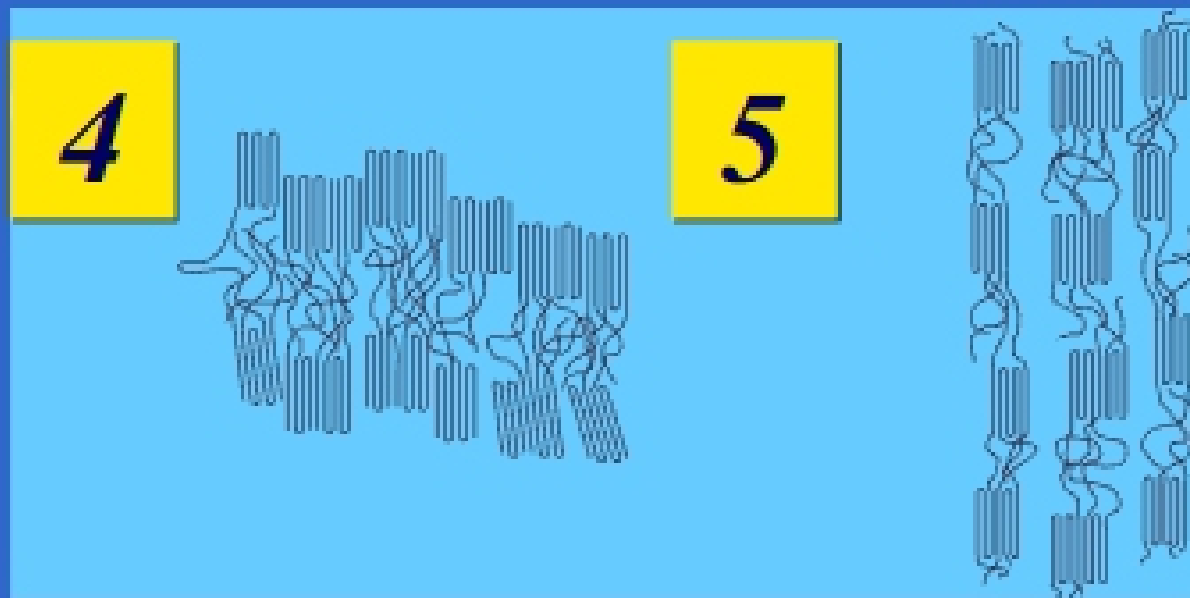
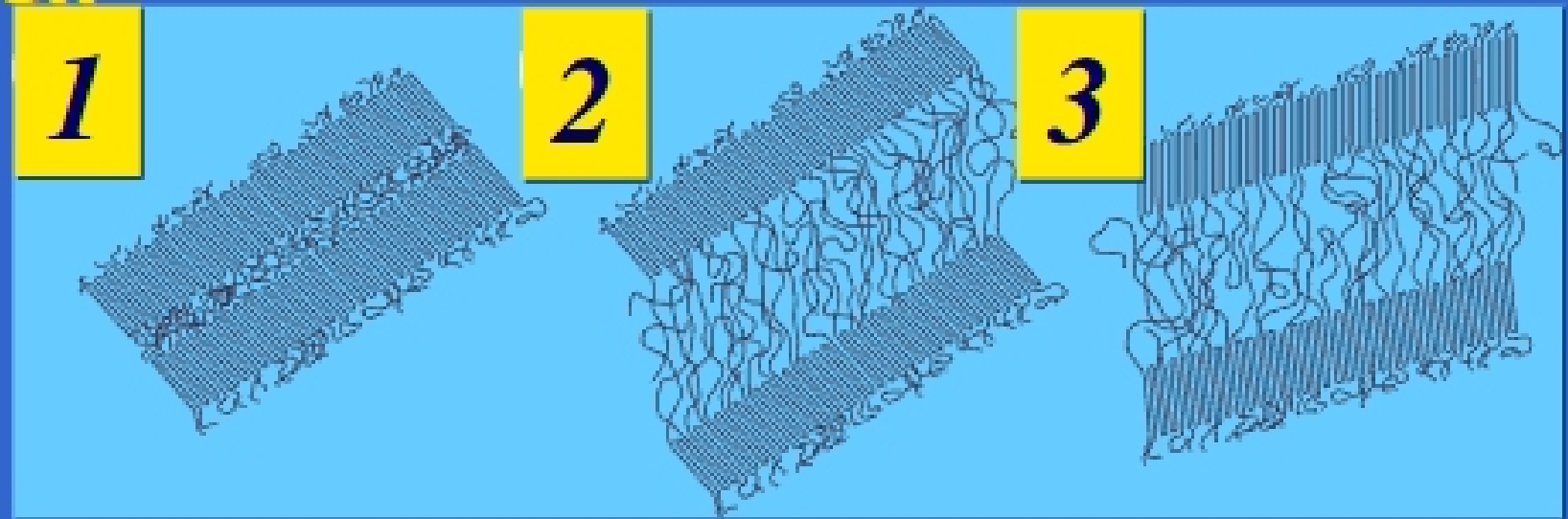
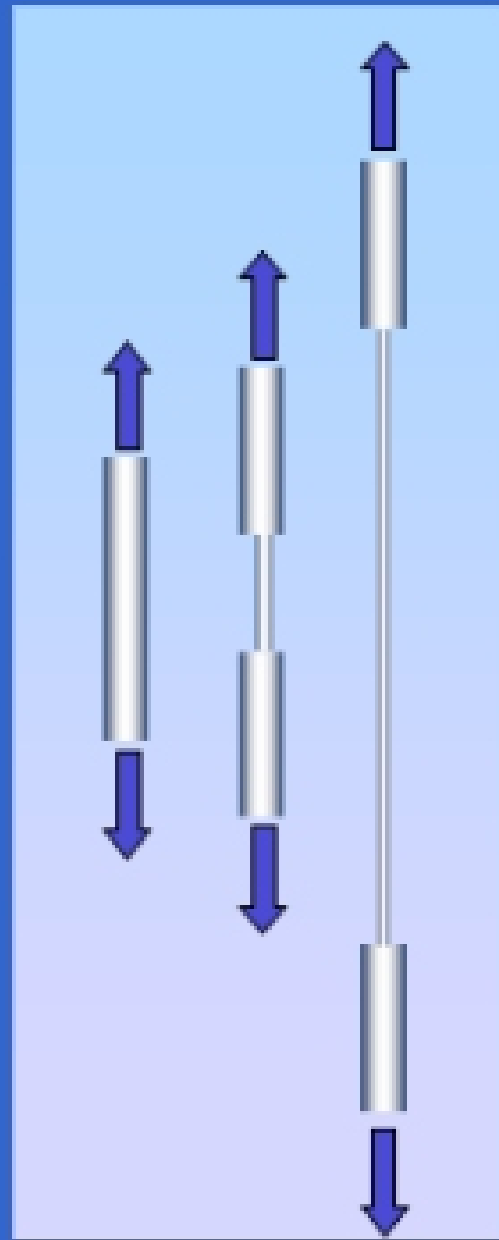


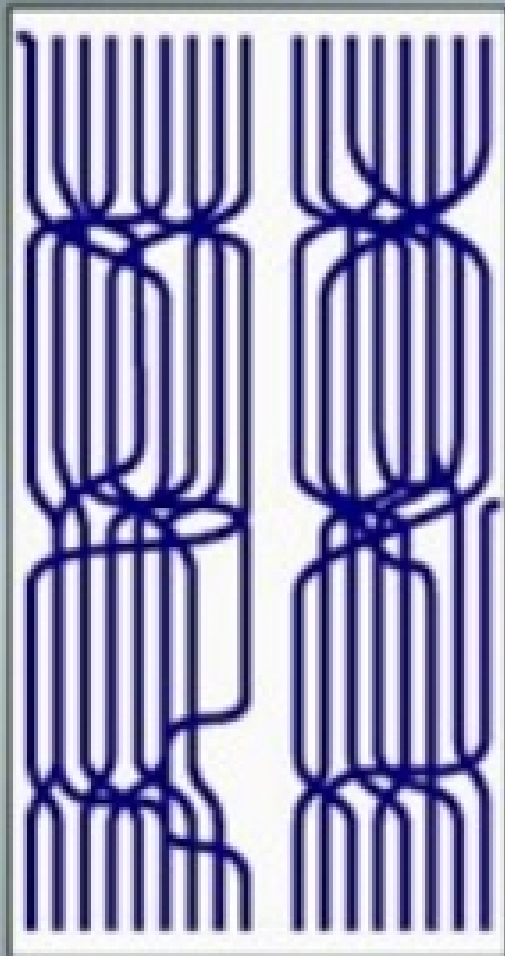
Pull thin polymer rod in tension



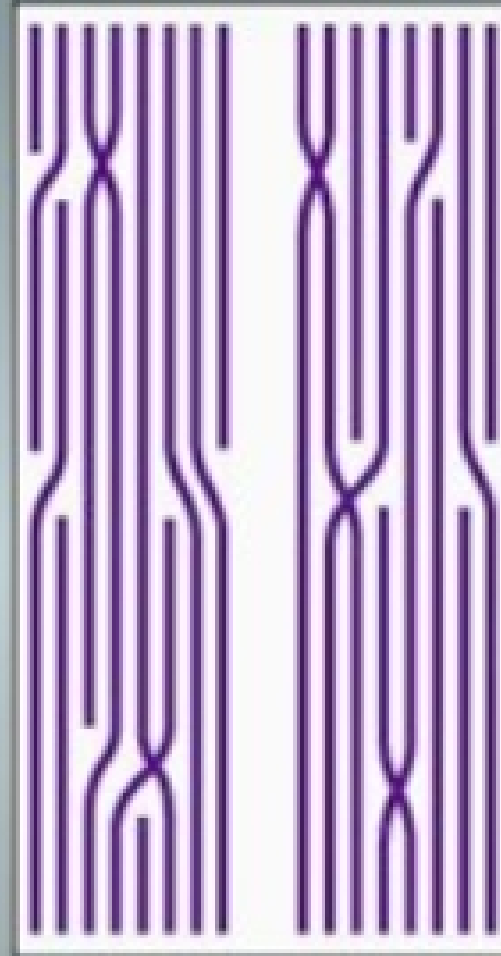
Get alignment of crystalline regions

Polymer fibers have aligned crystalline regions

- alignment gives greater strength to fiber



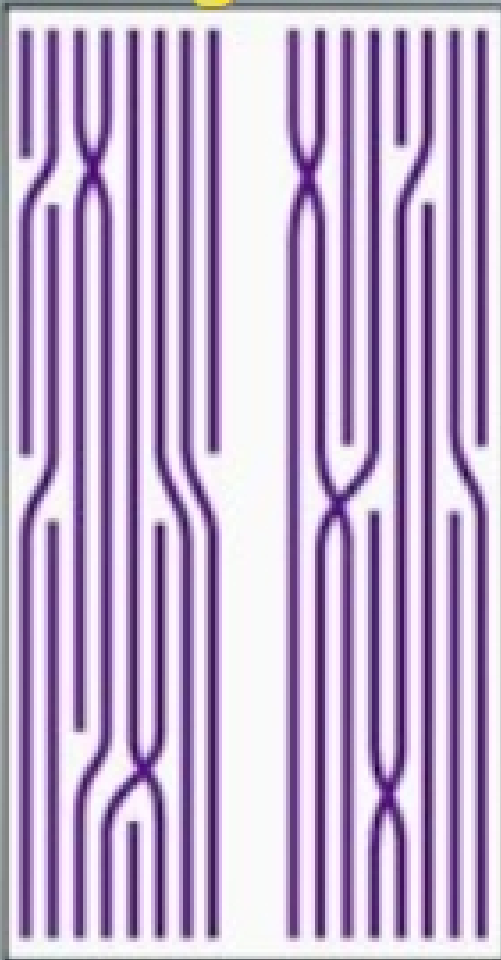
*Conventional
fiber*



*Highly aligned
fiber*

Polymer fibers have aligned crystalline regions

- alignment gives greater strength to fiber



Highly aligned fiber

Kevlar is highly aligned

