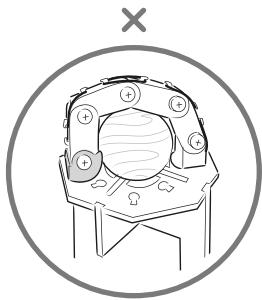
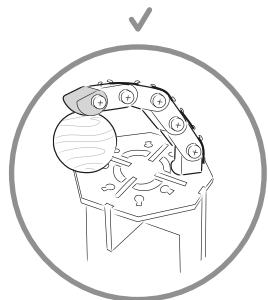


Name(s): \_\_\_\_\_

Date: \_\_\_\_\_

# Dexterity Design Challenge

Adapt your claw to pick up three kinds of balls **without the finger touching the palm**. For each challenge, try at least **two claw designs**, then write down your predictions and results.



## CHALLENGE 1: FOAM BALL

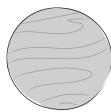


Remember, you can change how many rubber bands are on each joint!



	<b>Set up your claw.</b> What does the claw look like?	<b>Make a prediction.</b> Do you think the claw will pick up the ball?	<b>Test and observe.</b> What happened when you tried to pick up the ball?
A	Number of fingers: 1 <u>2</u> 3 Number of joints (Finger 1) : 2 (Finger 2) : 4 (Finger 3) : 0	I think... the claw won't pick up the ball because the fingers are uneven.	I observe... the claw couldn't get a grip and the ball slipped out.
B	Number of fingers: 1 2 3 Number of joints (Finger 1) : (Finger 2) : (Finger 3) :	I think ...	I observe...

## CHALLENGE 2: WOOD BALL



	<b>Set up your claw.</b>	<b>Make a prediction.</b>	<b>Test and observe.</b>
<b>A</b>	Number of fingers: 1 2 3 Number of joints (Finger 1) : (Finger 2) : (Finger 3) :	I think ...	I observe...
<b>B</b>	Number of fingers: 1 2 3 Number of joints (Finger 1) : (Finger 2) : (Finger 3) :	I think ...	I observe...

## CHALLENGE 3: MARBLE



	<b>Set up your claw.</b>	<b>Make a prediction.</b>	<b>Test and observe.</b>
<b>A</b>	Number of fingers: 1 2 3 Number of joints (Finger 1) : (Finger 2) : (Finger 3) :	I think ...	I observe...
<b>B</b>	Number of fingers: 1 2 3 Number of joints (Finger 1) : (Finger 2) : (Finger 3) :	I think ...	I observe...