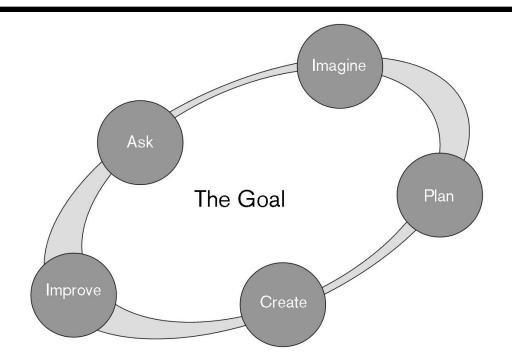
Name:	Date:	

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## The Engineering Design Process: Five Steps for Engineering Design



Ask: What's the problem?
What have others done?
What are the constraints?

Imagine: What could be some solutions?
Brainstorm ideas.
Choose the best one.

**Plan:** Draw a diagram.

Make a list of materials you'll need.

**Create:** Follow your plan and create it. Test it out!

**Improve:** Make your design even better. Test it out!

Name:		Date:		
Design #	Designing a Hand Pollinator Engineering Design Process: Create!			
1. Did your h	and pollinator pick up poller	? Circle one c	inswer:	
	Yes	No		
2. How much	pollen did it pick up? Circle	one answer:		
A lot	A little bit		None	
3. Did your h	and pollinator drop off polle	en? Circle one	answer:	
	Yes	No		
4. How much	pollen did it drop off? Circle	e one answer:		
A lot	A little bit		None	
5. What parts of your hand pollinator worked well? How do you know?				

6. What parts of your hand pollinator did not work well? Why not?

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Name:	Date:		
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## **Hand Pollinator Cost**

Directions: Using the table below, calculate how much your hand pollinator will cost to build.

Material	Cost per Unit	Units Needed	Total Cost
Example: pompom	\$1.00	7	\$1.00 × 1 = \$1.00
	1	Total Cost =	

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

## Hand Pollinator Materials Price List

1 pompom	\$1.00
1 pipe cleaner	\$1.00
1 eraser	\$1.00
6" (15 cm) of tape	\$0.50
1 marble	\$0.50
2" x 2" (5 x 5 cm) square of foil	\$1.00
1 craft stick	\$0.75
1 plastic drinking straw	\$0.75
6" (15 cm) of wire	\$0.75
6" (15 cm) of string	\$0.75