



## Dissecting a Diaper to Investigate Polymers

**Part A: EXPLORE:** What is a polymer?

OBSERVATIONS	Mystery Polymer A	Mystery Polymer B	Mystery Polymer C
What do you SEE			
What do you SMELL			
What do you FEEL			
What do you HEAR			
What happens after I add water?			
What do you SEE			
What do you SMELL			
What do you FEEL			
What do you HEAR			
Which type of powder do you think it is?			

**Part B: DISSECT: What is the Anatomy of a Diaper?**

Draw and label the **design of the diaper** in the space below for  
**BRAND A**

**Lining Materials:**  
What does it look like?

What does it feel like?

Amount of powder from the  
lining:

Draw and label the **design of the diaper** in the space below for  
**BRAND B**

**Lining Materials:**  
What does it look like?

What does it feel like?

Amount of powder from the  
lining:

Draw and label the **design of the diaper** in the space below for  
**BRAND C (if there are 3 campers)**

**Lining Materials:**  
What does it look like?

What does it feel like?

Amount of powder from the  
lining:

**Part C: INVESTIGATE: How much water can different sized diapers hold?**

	<b>Diaper A</b>	<b>Diaper B</b>	<b>Diaper C</b>
Amount of water added  Example: 30 + 30 + 30			
Total amount of water once the polymer is saturated (full)			
Rank the diapers  1-BEST 2 3-WORST			