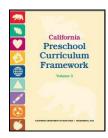
#### Handout 4A



## **Scientific Inquiry**

## **Ask Open-Ended Questions**



### **Types of Open-Ended Questions**

### **Example Questions**

Questions to encourage children to share their observations:	<ul> <li>"What did you notice when you observed the snail?"</li> <li>"What happened to the ice cube when we left it outside?"</li> <li>•</li> </ul>
Questions to facilitate children's problem-solving and investigations:	<ul> <li>"What do you think we could do to make the ball roll down in this direction?"</li> <li>"Can you think of another way to make the clay softer?"</li> <li>"How could we find out what worms like to eat?"</li> </ul>
Questions to elicit children's predictions and explanations:	<ul> <li>"Why do you think this plant grew and this one did not?"</li> <li>"Why do you think the pill bug turned its body into a ball shape?"</li> <li>"What do you think will happen if you mix salt with water?"</li> <li>•</li> </ul>

Having an adult encourage, prompt, and scaffold the use of expressive language in English and in the child's home language whenever possible, would support the child's overall development of scientific knowledge and language skills. PCF, Vol. 3, p. 169

Open-Ended Question in English	Open-Ended Question in Spanish
What does this make you think of?	¿En qué te hace pensar esto?
<ul><li>In what ways are these different?</li></ul>	¿En qué maneras son estas diferentes?
<ul><li>In what ways are they the same?</li></ul>	¿En qué maneras son estas iguales?
What materials did you use?	¿Qué materiales usaste?
What would happen if?	¿Qué pasaría si?
What might you try instead?	¿Qué podrías intentar en vez de?



#### **Handout 4B**

# Surf's Up Scientific Inquiry Surf's Up

#### Basic Inquiry Skills

- Observe and describe
   Use scientific tools
   Measure
   Classify

- Compare and contrast
   Predict and check
- Draw inferences and conclusions
   Record and document
- Communicate

List the Basic Inquiry Skills Used	Take Notes About Your Specific Experience
Engage	
Explore	
Reflect	