

Olivia's poster on **concentration** shows a simple story: pink lemonade powder is poured into water to make a **solution**, and ice is added to cool it. But then the glass of lemonade gets left in a sunny spot for several days, with nobody drinking any of it. First the ice melts, and then eventually all the water evaporates, leaving the powdered mix re-solidified in the bottom of the glass.

 **TURN AND TALK**

With a partner, help Olivia fill in some information to go along with the illustrations on her poster. (Thinking about how to fill in these blanks will help prepare you to consider a more serious **concentration** problem: drunk driving.)

As the ice melts into the solution...

What happens to the volume of the **solution**?

What happens to the amount of sugar, flavoring, and coloring molecules in the **solution**?

What happens to the **concentration** of the **solution**?

As the water evaporates from the solution...

What happens to the volume of the **solution**?

What happens to the amount of sugar, flavoring, and coloring molecules in the **solution**?

What happens to the **concentration** of the **solution**?

At which step are the contents of the glass **most concentrated and sweet**?

At which step are the contents of the glass **most dilute and unsweet**?

