Rainbow Skittles

Materials*:*

Plastic plate
Skittles (enough to fill border of the plate)
Water (enough to fill the bottom of the plate)

Procedure*:*

1. Arrange skittles on perimeter of plate (alternate colors)
2. Pour water on the plate until it fills the bottom of the plate. If skittles move, quickly arrange them back on the perimeter of the plate
3. Wait and watch to see what happens!

Discussion*:*

Skittles are coated in food coloring and sugar. When the water is poured over the skittles, the food color and sugar _____ the water. They then diffuse through the water, changing the color of the water to the color of the skittle.

Why do you think the colors don't mix? _____.

How could you speed up this reaction? **Using** _____**!** It will make the sugar dissolve _____ because the added energy in the temperature of the water causes water molecules to move faster and sucrose molecules to vibrate faster. This added movement tends to make the bonds between sucrose molecules easier to overcome.

For reference:
https://www.kidspot.com.au/things-to-do/activity-articles/rainbow-skittles-science-experiment/news-story/e8dd4d5450c8fee379583df7f58d6767