## Questions to Think About:

- Does air take up space?
- Did the balloon inflate because air takes up more space when it is heated?
- Will changing the temperature of the water affect how much the balloon inflates?
- Will changing the size of the balloon affect how much the balloon inflates?
- Will changing the shape of the balloon affect how much the balloon inflates?
- Does the amount of time the bottle is in the water affect how much the balloon inflates?


## Explanation:

Think about how balloons can shrink if put in the freezer. Bottles of carbonated drinks can even explode in hot weather. The amount of space that gas takes up depends on its temperature.


