

Thermal Expansion and Contraction

slower

faster

farther apart

contract

expand

closer together

cool

thermal energy

warm

Putting a bottle in the freezer causes the air to _____
down. Cooling causes matter to _____ (take
up less space), and causes particles to move _____ and
move _____. When removed from the freezer,
the air in the bottle starts to _____ up and
gain _____. Because it is warming, the air
will _____ (take up more space). The
particles move _____ and move
_____. The expanding gas exerts
enough pressure on the coin to cause it to rise up on one side.

