Ice Cold Lemonade – 8th Grade Responses

Response A (The coldness from the ice moved into the lemonade.):

Student #1: The ice is a frozen liquid that is in another liquid, the lemonade. Because the ice is cold, it cools down the lemonade.
Student #2: Well an ice cube cools beverage and melts when it is in warm beverages so the frozen water cools the hot temperature. Putting the coldness from the cube to the beverage.
Student #3: I think A. I think this because the lemonade was warm it melted the ice which causes the lemonade to be colder.
Student #4: This is how it works the “cold” ice goes into the cup the cold touching the lemonade melts it and goes into the cup. I know this because I do it just about everyday.
Student #5: When the cold ice goes into the warm water the ice melts and the cold water from the ice cools the warmer lemonade.
Student #6: I think it is A because the lemonade wasn’t cold until the ice was put in it.
Student #7: As the ice melted, cold water moved into the lemonade. Also as the ice melts it adds more liquid to the glass.
Student #8: The ice melted seeping the cold into the drink.
Student #9: The coldness of the ice subtracted from the cold cube into the warm lemonade making the ice melt.
Student #10: I think the coldness from the ice melted and made the lemonade cold. If he would have put the ice then the lemonade it would have not made a difference.
Student #11: The ice melted and the cold water mixed to cool the whole drink.
Student #12: I think that the ice’s coldness moved into the lemonade which made it melt. Causing cold water to form which mixed with the lemonade and made it.
Student #13: The ice is frozen coldness and the lemonade is a little warm. In this case, the cold ice is stronger than the warmth. So the ice will change the temperature to a colder degree but the ice will evaporate eventually because of the outside warmth.
Student #14: I think that the reason the lemonade got cold after the ice was in is because the coldness from the ice moved into the lemonade. Since ice is so cold and the lemonade is so warm, the ice melts into the lemonade and cools it down. Kind of like you put warm water in something, then you put in some cold water it becomes cooler than it was before.
Student #15: When you drop an ice cube in a liquid it takes a few minutes to work. The ice cube melts making the cool water move into the liquid. The coldness moves into the liquid because the cube melts.
Student #16: The coldness moved into the warm lemonade. This happens because the ice is very cold. Ice is just frozen water. In order for it to freeze it’s very cold so it cools the warm lemonade.
Student #17: I think that because when the cold ice goes in the warm lemonade the ice melts giving off cold water. After awhile the beverage gets cold.
Student #18: The ice makes everything near it cold and it all melts to make more water. So that will make all the ice melt and the ice will be water and you’ll drink it and its cold.

Response B (The heat from the lemonade moved into the ice.):

Student #19: I think that the heat from the lemonade moved into the ice. I think this because this ice was melting and the lemonade turned cold.
Student #20: I picked this because heat melts ice cubes so the heat in the lemonade melted the ice cubes in the lemonade.

Response C (The coldness and the heat moved back and forth until the lemonade cooled off.):

Student #21: Because the lemonade wasn't cold enough for the ice it melted. But the water from the ice was still cold and mixed with the drink.
Student #22: I believe the answer is C because it’s a mix of both cold and hot. So I chose the answer C because it is a mix of both.
Student #23: Well the ice comes out of a cold freezer and when it hits the warmth it starts to cool down.
Student #24: When the ice melted it made the lemonade get colder. It made the water colder because the ice is frozen and it is very cold.
Student #25: If you put cold ice in lemonade the ice and heat would move back and forth, cooling the lemonade. The ice made the lemonade cooler and the lemonade melted the ice.
Student #26: I think that it is C because the lemonade makes the ice warm and that means the lemonade cools down and the ice warms up and melts.