

# Density Videos Assignment

Instructions: Watch the videos below and then answer the corresponding questions.

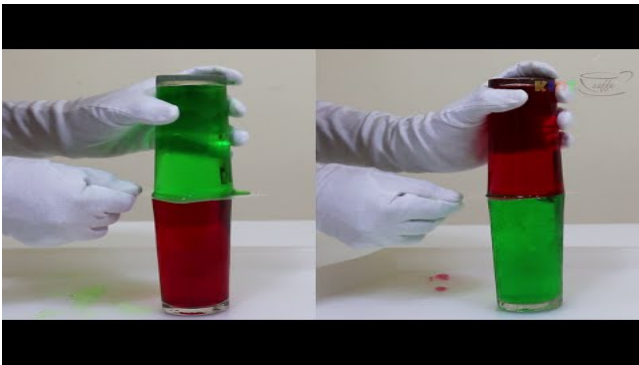
Video 1: <https://www.youtube.com/watch?v=hYFIImOebWs>

Video 2: <https://www.youtube.com/watch?v=Ak9CBB1bTcc>

Video 3: <https://www.youtube.com/watch?v=EEFGswCDwHQ>

\* Required

Video 1



<http://youtube.com/watch?v=hYFIImOebWs>

1. 1. In experiment #1, what happened when the divider between the cold water and warm water was removed? (NOTE: WATCH THE VIDEO AT 0.25x PLAYBACK STARTING AT 47s for EXPERIMENT #1) \* 1 point



Mark only one oval.

- The water stayed green on top and red on bottom
- The green water sank and the red water floated, When the warm water and cold water move, the green and red dyes mix together.

2. 2. Why did the green water and red water stay put or move? \* 1 point

Mark only one oval.

- warm water is less dense so it rises and cold water is more dense so it sinks
- warm water is more dense so it rises and cold water is less dense so it sinks
- water has the same density no matter what temperature it is at

3. 3. In experiment #2, what happened when the divider was removed? \*

1 point



Mark only one oval.

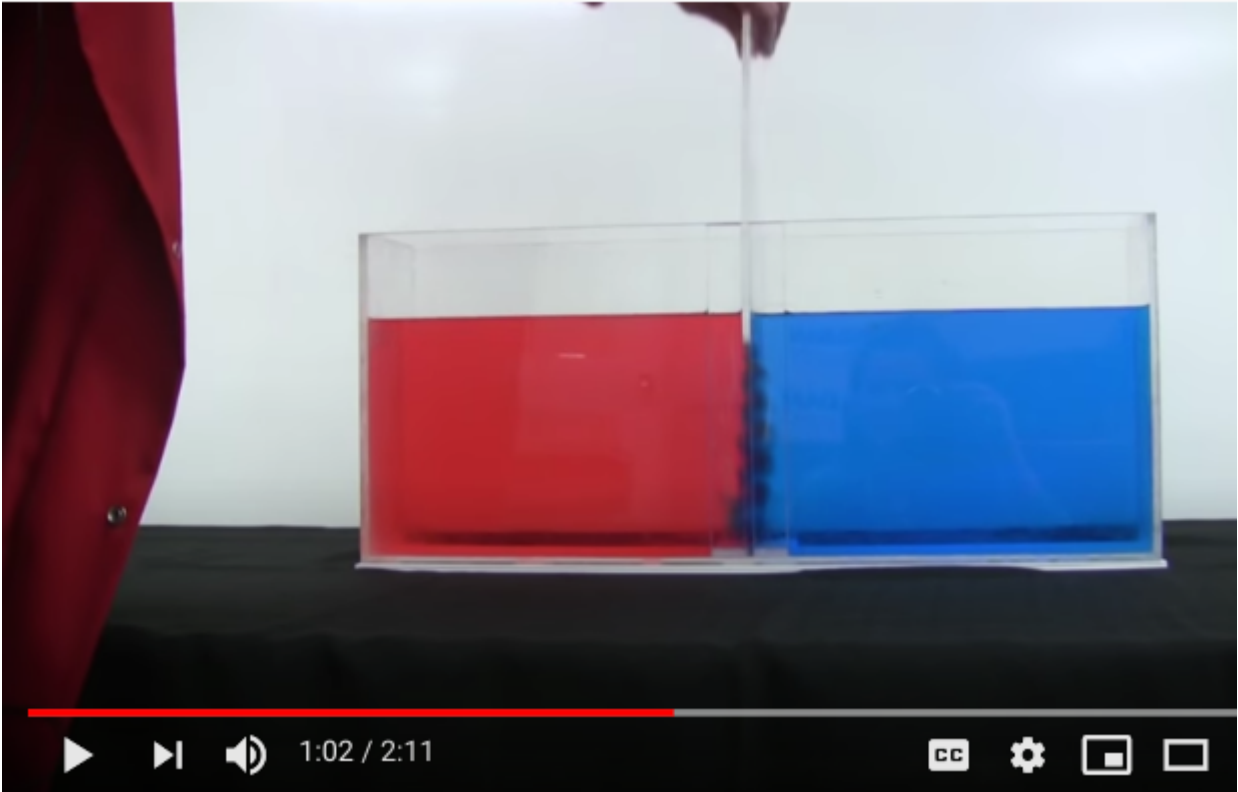
- the water stayed red on top and green on bottom
- the green water floated and the red water sank

Video 2



<http://youtube.com/watch?v=Ak9CBB1bTcc>

4. 4. What happens when the divider separating warm red water and cold blue water is removed? \* 1 point

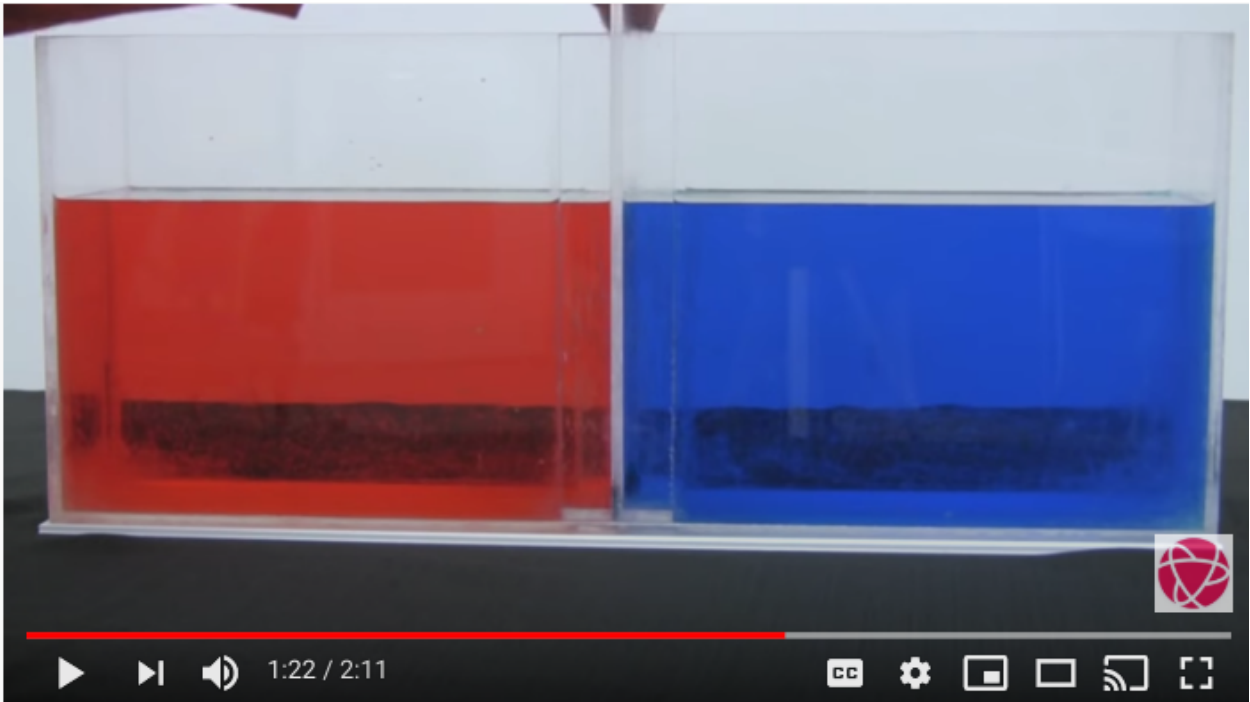


*Mark only one oval.*

- the water turns purple
- the warm red water sinks and the cold blue water floats
- the warm red water rises and the cold blue water sinks

5. 5. What happens when the divider separating the red and blue water of the same temperature is removed? \*

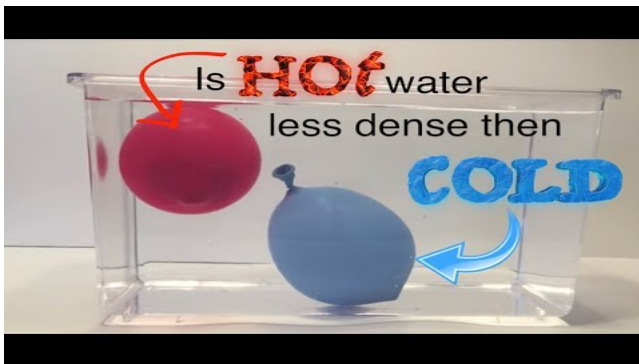
1 point



Mark only one oval.

- the water turns purple
- the warm red water sinks and the cold blue water floats
- the warm red water floats and the cold blue water sinks

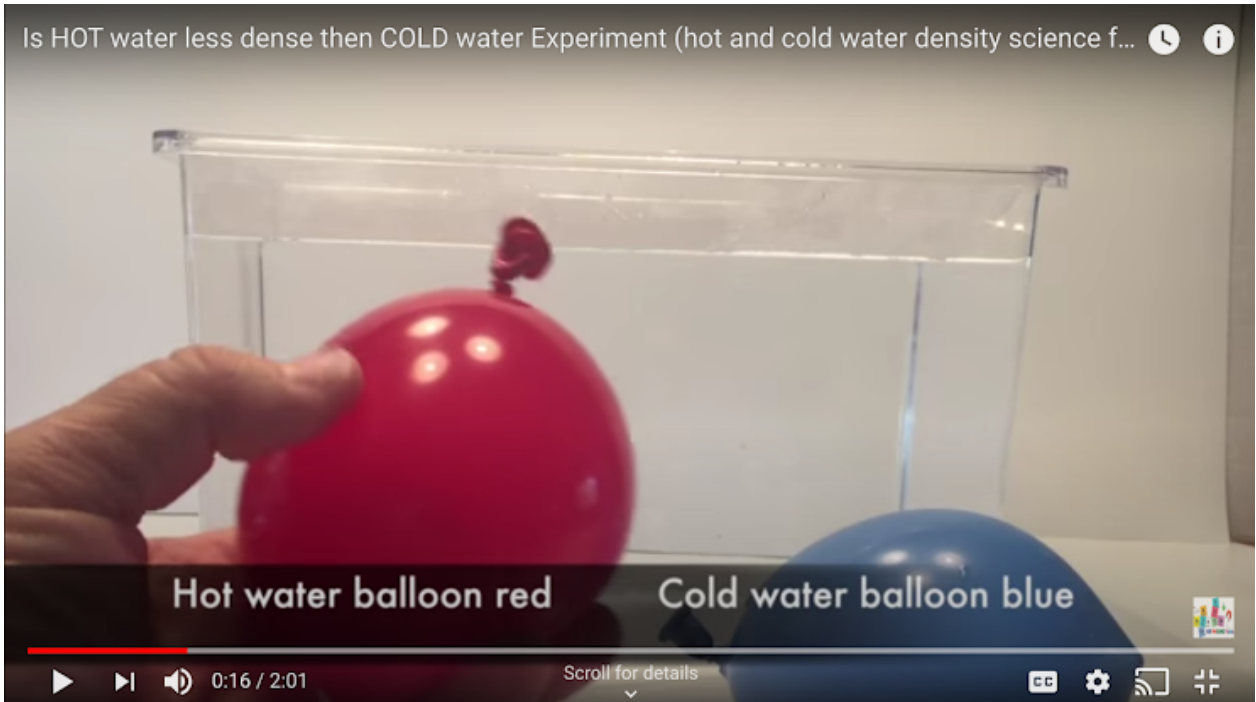
Video 3



[http://youtube.com/watch?](http://youtube.com/watch?v=EEFGswCDwHQ)

[v=EEFGswCDwHQ](http://youtube.com/watch?v=EEFGswCDwHQ)

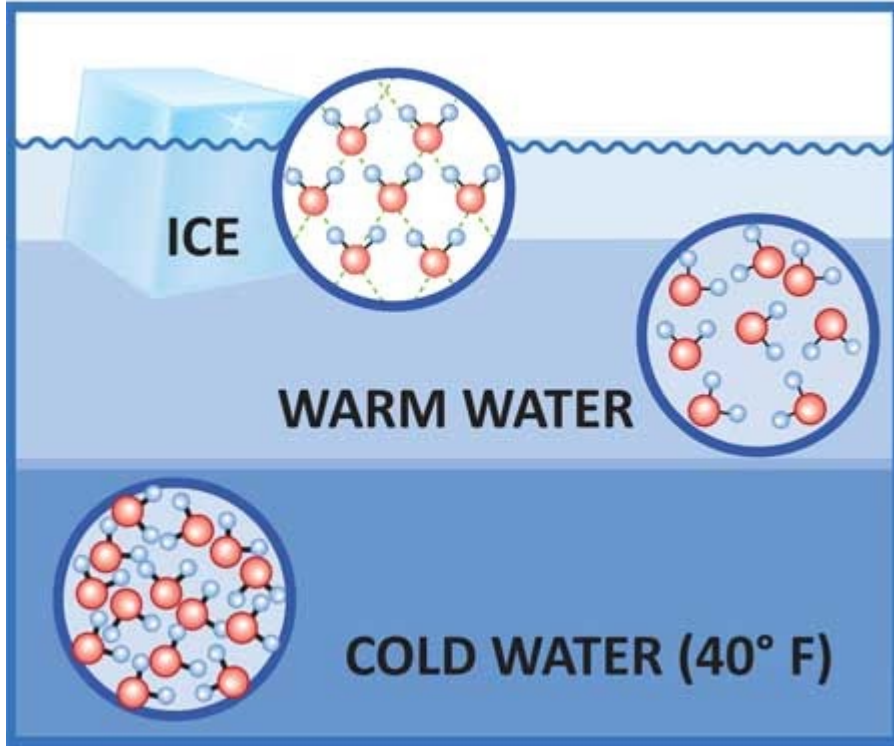
6. 6. The tank below is filled with hot water. A red balloon filled with hot water and a blue balloon filled with cold water are put into the tank. What happens? \*



Mark only one oval.

- Both balloons float
- The red balloon sinks and the blue balloon floats
- The red balloon floats and the blue balloon sinks
- Both balloons sink

7. Why do you think warm water floats and cold water sinks when put into the same tank? \*



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8. In your own words, what do you think density is? \*

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