YEAR 2'S SHAVING FOAM RAIN CLOUDS!

by our amazing Year 2 Scientists



The Science Behind Shaving Cream Rain Clouds



Shaving cream floats on water because it has a lower density than water. Similarly, clouds float in the atmosphere, even though the average cumulus cloud weighs over one million pounds. It hardly seems possible that a cloud doesn't just sink to the ground!



Keep two facts in mind. First, clouds are huge, so they rest on top of a gigantic air column.





Second, clouds kind of do fall, when you think about it. When a nimbus cloud (the type of cloud that produces precipitation) holds more water than the air can support, the excess falls as rain, snow, or sometimes hail.



Similarly, when you drip food coloring onto shaving cream, it is heavier than the foam and falls through the fake cloud. Eventually it enters the water (the "atmosphere" in this project).







