

SPACE MARBLES

Captain Catalyst Experiment (WITH ADULT SUPERVISION ONLY)

You will need:

- vegetable oil
- milk (Don't let the milk go sour!)
- food colouring, diluted with water
- one eyedropper per participant
- plastic cups (one for the oil, one for the milk, one for each food colour and one empty cup per participant)



Method:

- Fill a plastic cup half way with vegetable oil.
- Add milk with your eyedropper until you have made at least 10 white balls. These are your marbles.
- Add a few drops of food colouring (blue, red, orange, etc.) to the white balls.
- You now have made coloured space marbles!

THE SCIENCE

Milk and vegetable oil are very different from each other in terms of their chemical makeup. Milk is not soluble in oil. Oil is denser (or heavier) than milk, so it sinks to the bottom.

Experiment courtesy of Captain Catalyst (Steve Rosenstein)