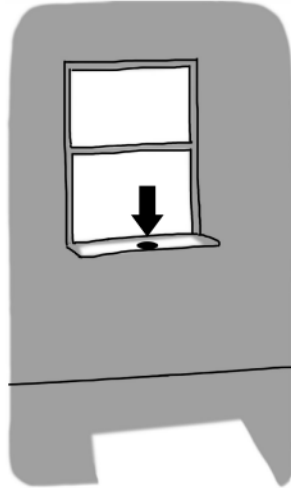
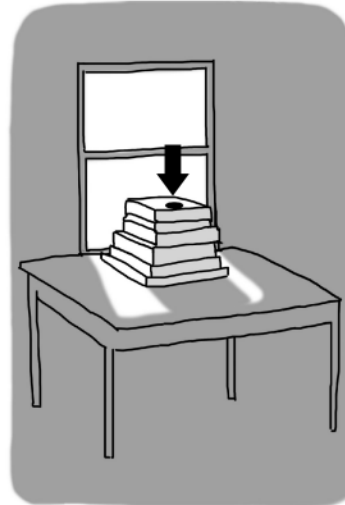


Chasing Rainbows

1. Your teacher has a sunny place picked out for you to put your cup, like on a windowsill or on a stack of books by a window. Put the cup where you see the arrow in these drawings.



or



2. Look at the floor. Can you see the shadow of your cup? If you don't see the cup's shadow, move the cup until you do.
3. Your teacher will add water to the cup. As the cup fills, everyone watch for wiggling lines of light and put your paper where those lines are.
4. If no one saw any wiggling lines, stir the water with your finger and keep looking. You'll find them!
5. Wait until the water in the cup is completely still and see what happens to those lines. Talk with your group about what you see.
6. Here are some experiments to try:
 - Can you catch the rainbow colors on your card?
 - Without touching the cup, can you make the colors disappear?
 - Can you make the colors brighter? (Hint: colors made of light are brightest when they are in a shadow.)
7. Talk with your group about what you think is making the rainbow.
8. On the back of this page, draw a picture to explain where the colors are coming from. Use your colored pencils or crayons.