

Evidence for Atoms

MATERIALS

For each group

- balance
- cups (2)
- marbles
- pennies

PROCEDURE

1. Your teacher will provide two cups that contain a mixture of pennies and marbles.
2. Use a balance to find the total mass of the pennies in the first cup. Then, find the mass of the marbles.
3. Repeat step 2 for the second cup.
4. Compare the composition of the “compounds” in the two cups in terms of the proportions of marbles and pennies by mass. Do the cups contain the same “compound”?

5. What can you deduce from your results?
