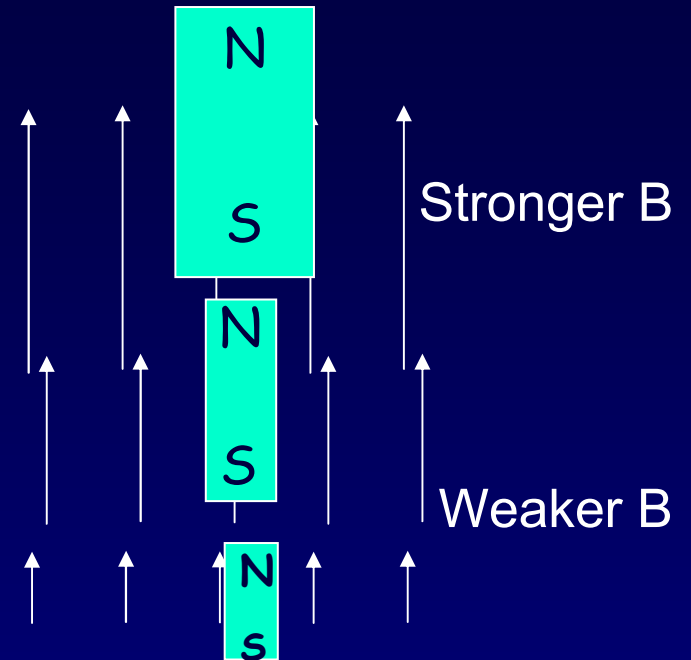


Solution

1. Consider a magnet in an inhomogeneous field, as shown.
Which way will the magnet feel a force?

- a. Up
- b. Down
- c. Left
- d. Right
- e. No force

The N pole is in a stronger field than the S pole, so its upward force dominates.



2. The magnets (i.e., atoms) leave the oven with random orientations.
What pattern do you expect on the screen?