Paper HW: Chapter 5 (Due October 23rd)

In your LON-CAPA homework for chapter 5 you had a question titled "Refrigerator Magnet" that asked you to find the minimum force the magnet must exert on the fridge to hold up the note. In this On-Paper assignment you will flesh out the details of this problem.

a) Draw a system schema that represents all the objects in this interaction.

b) Draw separate free-body diagrams for each of the three objects in the system (refrigerator, magnet, note). Make sure you label all of the forces in the free-body diagram.

c) Write out an expression for the total force acting on each of these objects IN SYMBOLIC FORM.

d) Show your algebraic work for answering your LON-CAPA version of the minimum force required to hold up the note