

HOMEWORK - NORMAL FORCES - DAY #1

Name: _____

Period: _____ Date: _____

1.) In our class discussion I noticed that people's gut feelings varied a lot about the object on the table problem. Please write a paragraph explaining what there is about the nature of a solid table that allows it to push up on an object.

2.) Given a ladder leaning against a very solid and thick brick wall:

a.) Would you imagine that the wall exerts a force on the ladder?

b.) Defend your answer as clearly as possible explaining how the wall responds to the ladder (include a sketch if possible).

3.) If you have a germ sitting on a strong and solid table, do you believe the table exerts an upward force on the germ? Defend your answer as clearly as possible.

4.)

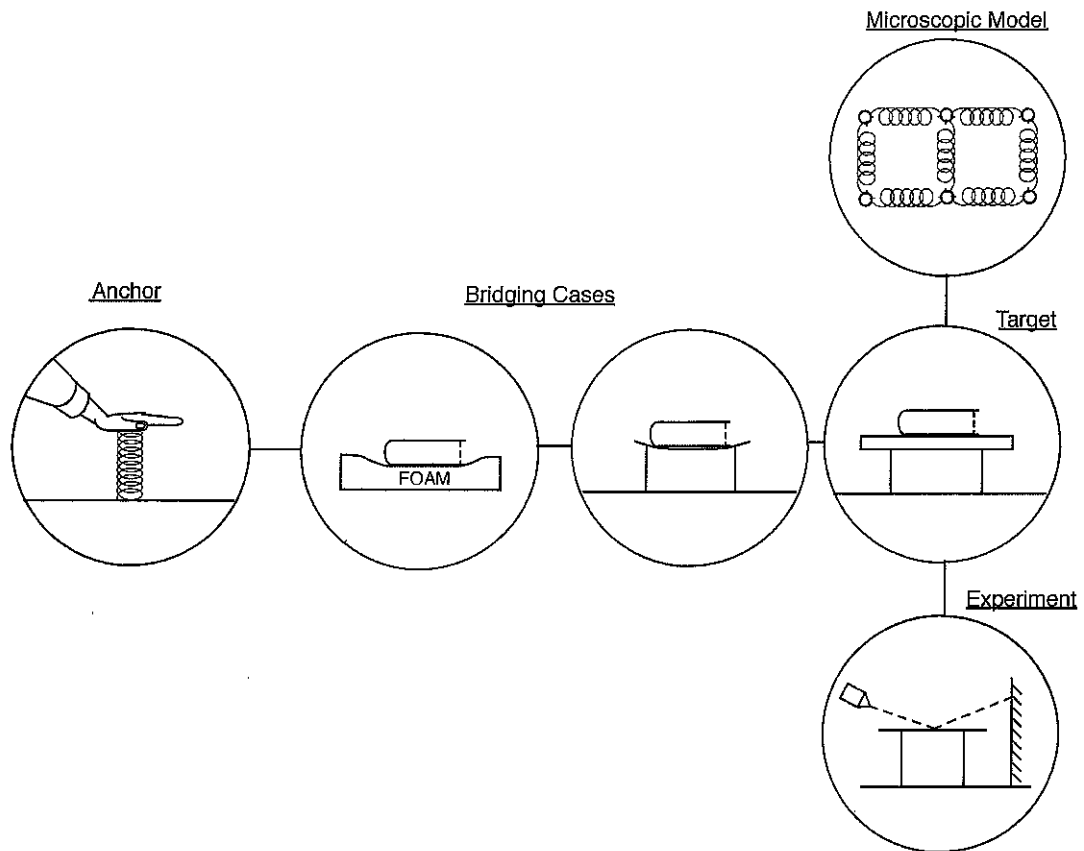


Figure 1.19

a.) Which idea pictured in the concept diagram above is most helpful to you? Explain why.

b.) Which idea pictured above would you leave out of the lesson because it was not helpful to you?

5.) What is the "spring model" of solid matter and how is it useful in explaining forces between solid objects that are touching each other?