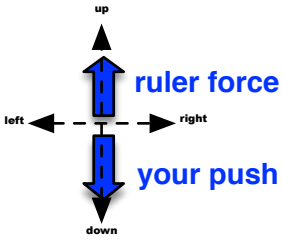
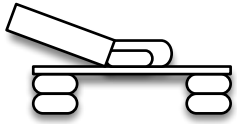
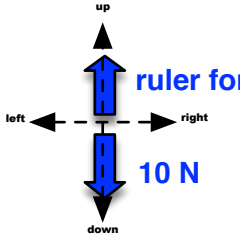
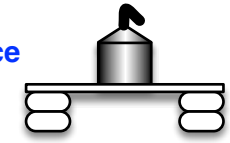
Normal Force Investigation



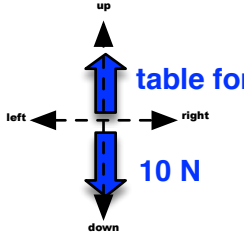


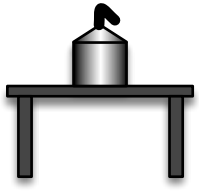
Push down on the ruler with your hand. Is it springy like the spring? Do you feel it pushing back?



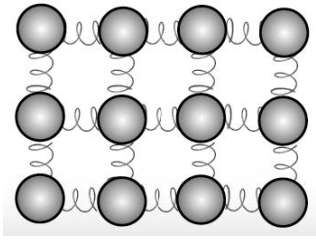


Put the kilogram on the ruler. Did the ruler sag downward? Do you think it's pushing back? How hard?





Put the kilogram on the table. Does the table push back? How hard? could the table be sagging a tiny bit?



The molecules in solid objects have bonds between them that are springy. Is it possible that a push on a solid object could compress it a tiny bit?

Right now, you are at rest in your seat and staying at rest. How do you think the force of your weight compares to the force of the seat pushing back?

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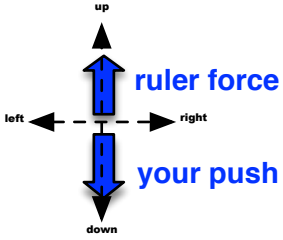

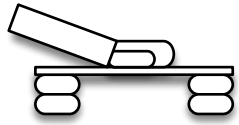

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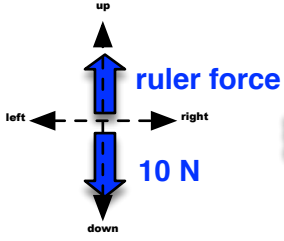

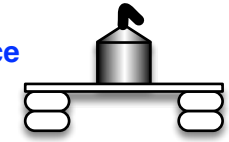

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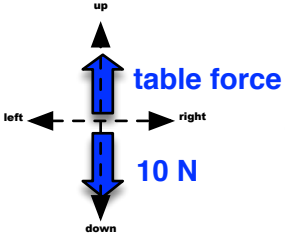

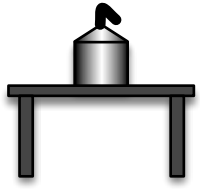

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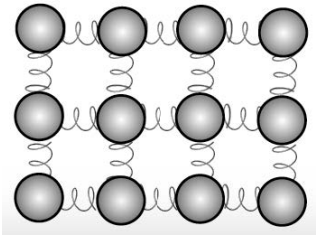

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