

Answer on Question #42238 – Physics - Mechanics | Kinematics | Dynamics

Two forces act on a book resting on a table, its weight and the support force from the table. Does the force of friction act as well? Justify your answer with an example.

Solution:

No, not unless the book tends to slide or does slide across the table. Friction forces occur only when an object tends to slide or is sliding. It can be observed by trying to push a wooden box across a floor or table. This force keeps an object still and prevents it from moving when a force is applied.