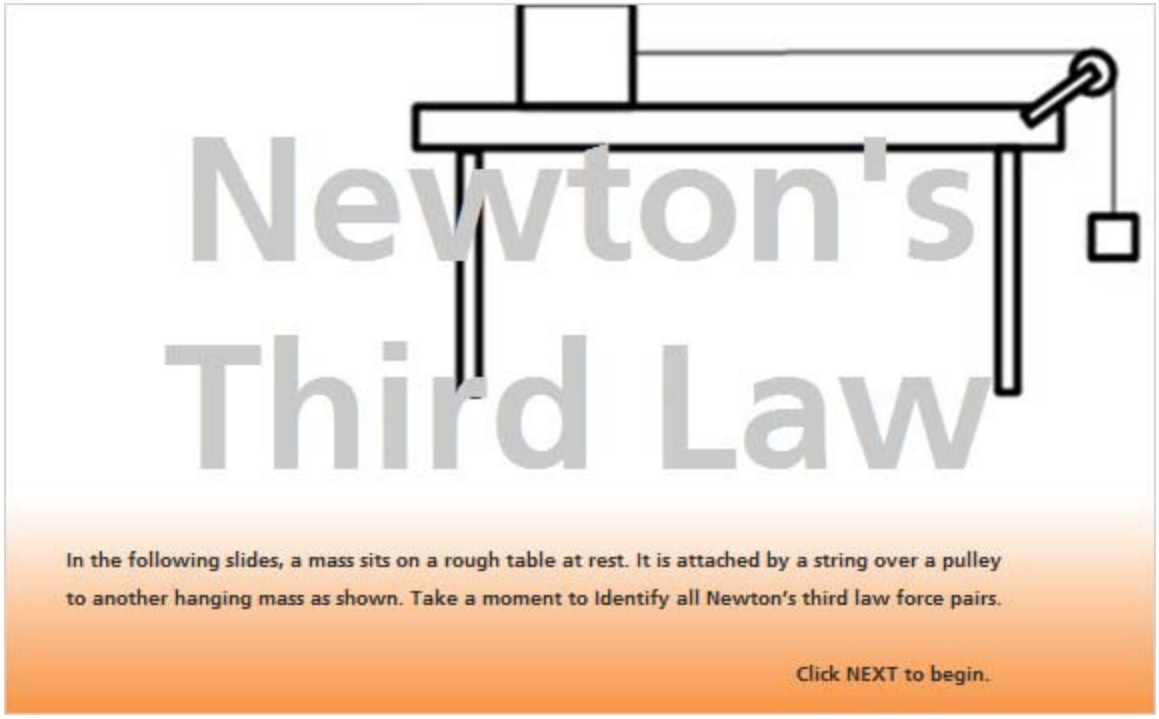
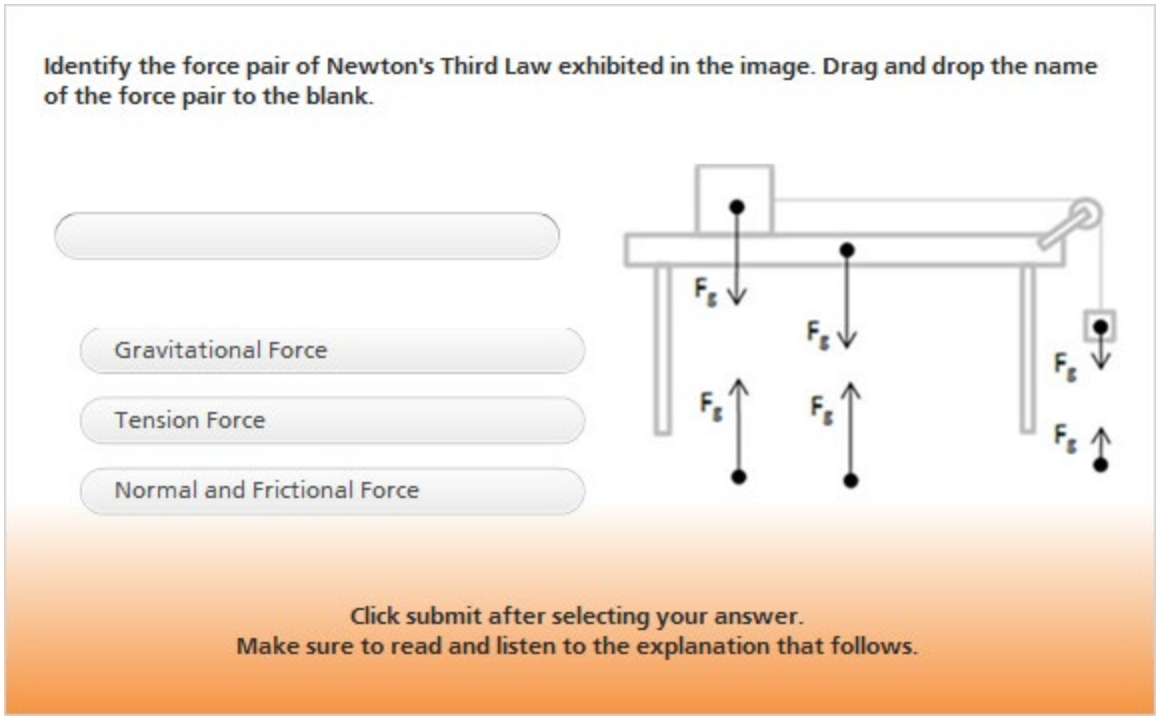
Module 5: Impulse and Momentum
Topic 2 Content: Newton's Third Law Practice Explanations



In the following slides, a mass sits on a rough table at rest. It is attached by a string over a pulley to another hanging mass as shown. Take a moment to identify all Newton's third law force pairs. Click NEXT to begin



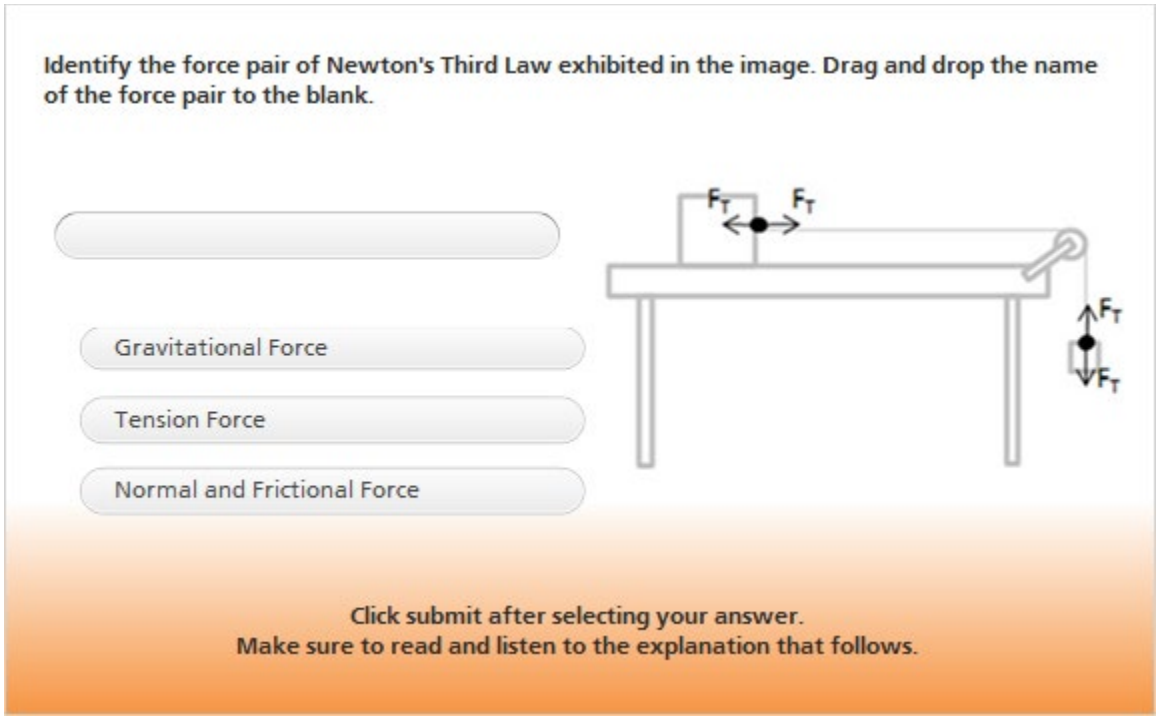
Problem 1:

Identify the force pair of Newton's Third Law exhibited in the image. Drag and drop the name of the force pair to the blank.

Explanation:

The gravitational force acts between the hanging mass and the earth, pulling the hanging mass down and the earth up.

The gravitational force acts between the mass sitting on the table and the earth, pulling the sitting mass down and pulling the earth up.



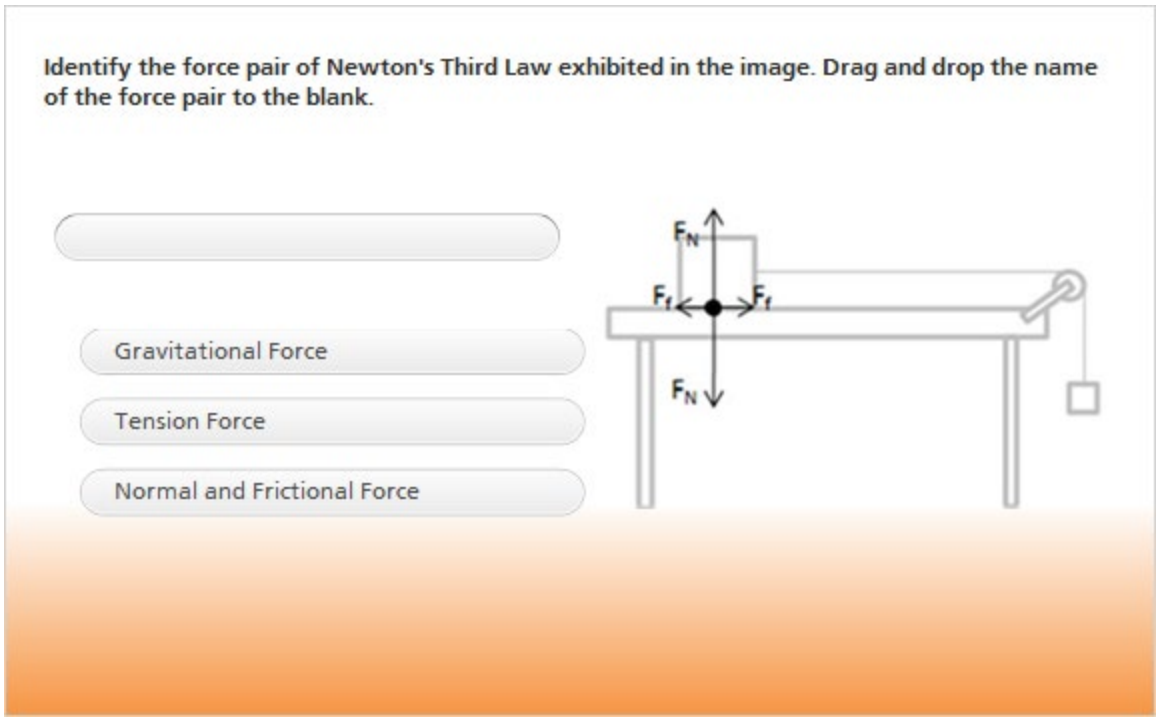
Problem 2:

Identify the force pair of Newton's Third Law exhibited in the image. Drag and drop the name of the force pair to the blank.

Explanation:

A tension force acts between the rope and the hanging mass, pulling the mass up and pulling the rope down.

A tension force acts between the sitting mass and the rope, pulling the sitting mass to the right and pulling the rope to the left.



Problem 3:

Identify the force pair of Newton's Third Law exhibited in the image. Drag and drop the name of the force pair to the blank.

Explanation:

A normal force acts between the table and the sitting mass, pushing the sitting mass up and pushing the table down.

A frictional force acts between the table and the sitting block, pushing the sitting block to the left and pushing the table to the right.

Can you find more?