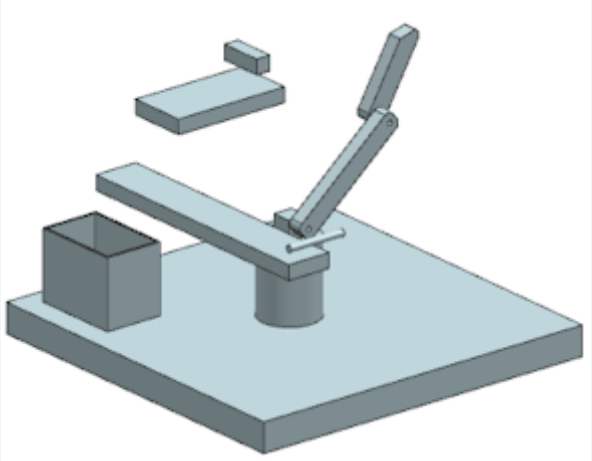
Use a runtime expression to apply a motion relationship

Create a runtime parameter for the speed of the long conveyor. Use this runtime parameter in a runtime expression that will apply a relationship between the speed of the long conveyor and the short conveyor.

1. Open **mcd01_training_plant_d**.

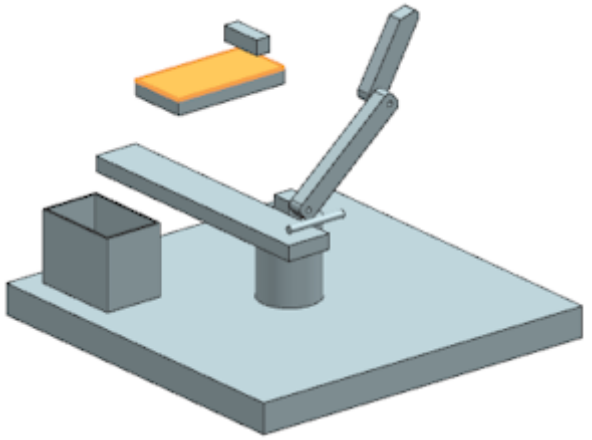


2. Run the simulation to see the results, and then stop the simulation.

   The **short conveyor** has a transport speed of three. The **long conveyor** has a transport speed of five.

3. Choose **Home** tab→**Mechanical** group→**Runtime Expression**  .

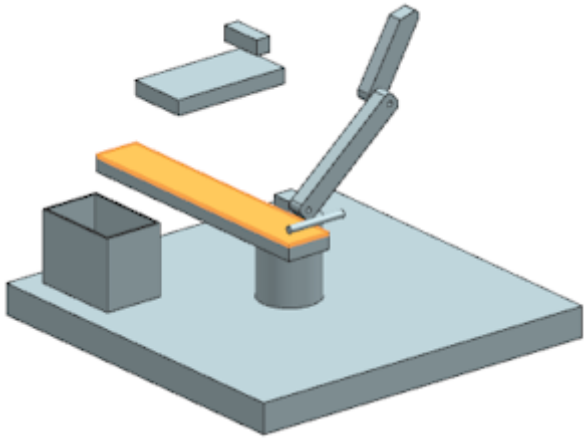
4. In the **Parameters to Assign** group, do the following:
   - In the graphics window, select **Transport Surface : short conveyor**.
   - **Property** = **parallel speed**



5. In the **Input Parameter** group, do the following:
   - In the graphics window, select **Transport Surface : long conveyor**.
   - **Parameter Name** = **parallel speed**

- Click **Add Parameter**  .

  A variable is created in the **Add Parameter** table.



6. In the **Expression** group, type:
   - **Expression Name** = **short conveyor speed**
   - **Formula** = **3*long_conveyor**
7. Click **OK**.
8. Run the simulation to see the results and then stop the simulation.

   The short conveyor speed is now three times the speed of the long conveyor.
9. Close the part without saving.

You completed the activity.