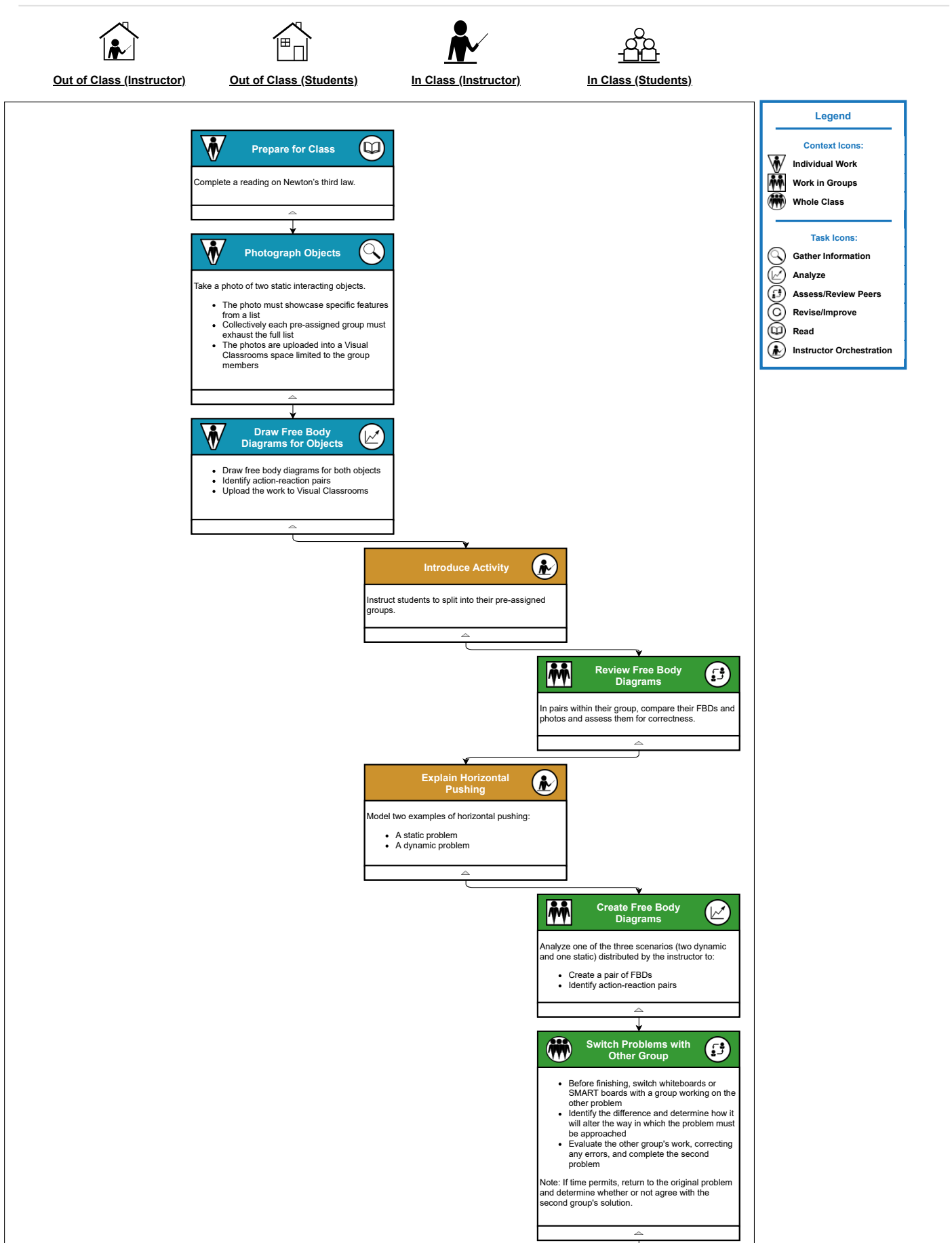


Newton's Third Law

By Jean-François Brière

Description:

In this single class activity, students work on two similar problems with one big difference. They will evaluate each other's work, learn to apply Newton's second and third laws to problems involving friction between multiple objects, and learn to identify key distinctions between similar problems. See a full description [here](#).



Review Exercise

Review the exercise, emphasizing the characteristics of action-reaction pairs.

Explain Vertically Stacked Objects

Model an example of vertically stacked objects.

Create Free Body Diagrams

Analyze one of the two scenarios (one dynamic and one static) distributed by the instructor to:

- Create a pair of FBDs
- Identify action-reaction pairs

Switch Problems with Other Group

- Before finishing, switch whiteboards or SMART boards with a group working on the other problem
- Identify the difference and determine how it will alter the way in which the problem must be approached

Review Exercise

Review the exercise, emphasizing the characteristics of action-reaction pairs.

Edit Diagrams

In Visual Classrooms:

- Rework the original diagrams
- Explain in writing the changes made

Review Group Work and Submit

- Provide feedback on the work of their group members, revising their own work as many times as necessary based on feedback they receive
- Submit a final version