Order	Experiment	Inertial
6	ball falls from accelerating cart, cart FOR	no
3	ball falls from CV cart, cart FOR	yes
2	ball falls from CV cart, EFOR	yes
1	ball falls from stationary cart, EFOR	yes
12	Foucault pendulum on rotating platform, EFOR (stars)	no
11	Foucault pendulum on rotating platform, platform FOR (earth)	yes
4	puck back/forth on CV cart, cart FOR	yes
5	puck back/forth on CV cart, EFOR	yes
7	puck back/forth on rotating table, Dr Ivey FOR	no
8	puck back/forth on rotating table, EFOR	yes
9	puck held by rubber band on rotating table, EFOR	yes
10	puck held by rubber band on rotating table, Dr Hume FOR	no

The law of inertia holds when a constant velocity is present, and no outside forces interact with the system that cause unexpected outcomes. In addition, under the earth's frame of reference, the law of interaction will always hold. We figured this out during the experiment in which there was a rotating table and there was a puck being pushed forward but it was coming back to Dr.Hume's in his perspective we didn't know why it was happening however when we came out to Earth's frame of reference we could see the puck was moving in a straight line.

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