**Narrator** : (A customer is eating heartily)

One day, a customer was enjoying his lunch in a fancy restaurant. Suddenly, something stained (弄污) the tablecloth.

- **Customer** : (to the waiter) Hey, don't you think that the tablecloth is too dirty? I hate having lunch on such a disgusting table. Could you please replace it?
- Waiter A : My pleasure! Please wait for a while. (Waiter A cleans up the table slowly)
- Customer : That's too slow. Make it faster please.
- Waiter A : Okay! Let me show you my new trick. I learnt it from a television programme yesterday. (Waiter A tries to pull off the tablecloth but fails)
- Customer : Too bad.
- Waiter A: Why!? Did I do anything wrong?
- Waiter B: (come out) Haha! You shouldn't pull it like this. You should pull it quickly and the bottles should be filled with water.

(Finally, Waiter B pulls the tablecloth off successfully)

- Waiter B : We made it!!
- Waiter A : (look up to the sky) Why? I don't understand! The water bottles didn't fall down when he (point at Kenny) pulled it?

[Everyone freezes]

- Narrator: That is because of <u>inertia</u> (慣性). According to <u>Newton's first law of motion</u> (牛頓運動第一定律), an object has a <u>tendency</u> (趨勢) to remain <u>at rest</u> (靜止) or in uniform motion unless it is acted on by a <u>net force</u>. (淨力) Bottles filled with water have a larger <u>mass</u> (質量), which means a larger inertia.
- Waiter A: It seems complicated. Could you explain it in a simpler way?
- **Waiter B**: Well. The water bottles on the tablecloth were at rest before we pull it. Therefore when we pulled off the cloth, those bottles tended to remain at rest.
- Waiter A: That's why we feel being pushed in the MTR when the train suddenly stops from high speed, right?
- Waiter B: Bingo! Because of inertia, even when the train stops, we can still feel ourselves moving.
- Customer : Wow! I have learnt a lot of things! But... Can I eat now? I'm starving!