

4B Class Performance: Physics (Laser Gun & Radiation)

Narrator: Linda Wong

Aliens: Kenny Chan, Jimmy Chau, Beacon Hon, Kenneth Fung, Alfred Lau

WYY scientists: Jerry Chan, Dick Choi, Billy Li

Human Beings: Danny Chan, Jacky Lam, Ben Wong

Directors, Screenwriters & Debriefers: Davis Chan, Kevin Tse, Edward Tsoi

Music Managers: Steven Chan, Kelly Yuen

Stage Managers: Leo Chan, Paco Lee, Kelly Yuen

Props Makers: ALL 4B Class members

Teachers-in-charge: Mr SL Ng & Ms A Cheung

The story is about a battle between the human beings and the **aliens**.

On the first of September 2036, the aliens brought along their armies and invaded the Earth.

They had got advanced and fatal weapons.

A number of cities had been fallen into the hand of the aliens. It had already reached the critical moment for the Earth.

The brilliant scientists at WYY worked together and tried to find out the weaknesses of the aliens in order to defeat them and take over the Earth again.

They invented a new weapon called uni-laser gun.

And it was regarded as the final **savior** of the Earth.

Alien A: Umm...This Planet is so beautiful. There are a lot of resources that we need. It's time for us to take over the Earth.

Alien B: Yes. You're right. I think we can use those **invincible** energies stored in the balloon.

Alien C: Hahaha. These energies are so strong that we had made use of them to occupy several Planets successfully. Now, we've got Mars, Venus, Jupiter; the Earth would surely be the next one on our list, hahaha. (Take out the balloon and then store it up secretly.)

Alien D: Do keep the balloon safe and don't let the humans on Earth know our secret place. Otherwise, they will try to destroy the balloon and we will lose all our energies.

Alien E: No worry. Surely it is the safest place. Besides, the balloon has strong defensive abilities too. So, relax and be optimistic.

On the other hand, the scientists at WYY had invented a new weapon called uni-laser gun. They were very happy and they believed this weapon can help save the Earth.

Scientists: These are our new weapons - uni-laser guns. We discovered that the energies of the aliens were stored in the balloon. But we could not find out where the balloon was.

Human1: No problem. Surely we can find it out.

Human2: Yup! With our concerted effort, saving the Earth is simply **a piece of cake!**

Human3: Don't you know we are the 'Super Three'?

Scientists: What is 'Super Three'? A new brandname?

Human1: Definitely no! Well, we are the 4B students from WYY. We've solved all sorts of problems when we work as a team & thus our peers call us the "Super 3"!

Scientists: Really? Can I trust you guys?

Human1+2+3: (sing)"We believe we can win"! We can help you and our Earth to destroy the energies of aliens.

Scientists: OK, I'll pass these three uni-laser guns to you, "Super Three". Good Luck and take care.

-----So, the 'Super Three' went to find the energies stored in the balloons. They went across many mountains and rivers. Three days later, they reached the alien camp. Suddenly, there was a heavy rainstorm and the cover of the balloons was destroyed. They saw several balloons at the corner of the camp.

Human2: Look! I saw a number of balloons over there.

Human3: Yeah, let's destroy the balloons by our uni-laser guns.

Human1: Oh! How come? The balloons didn't burst. Why are those balloons so strong? Or are the uni-laser guns toy guns only?

Human2: Maybe we can use our hands to spike them. Shall we?

Human1+3: Let's try.

Human2: It doesn't work!

Alien A: Haha. You guys are too innocent. Our balloons are invincible.

Human1: Hey, can you see that there are some black areas behind the balloon?

Maybe we can use our guns to shoot the black area.

Human1+2+3: Yup! You shoot! I shoot!

All Aliens: OH NO! STOP IT! YOU CAN'T DO THIS!

Luckily, the balloons burst. The aliens felt very tired and they fell onto the ground. The 'Super Three' succeeded in destroying the energies of the aliens. They then killed the aliens immediately and rescued the Earth.

The underlying principles

Dark coloured object is **good absorber of radiation**. It can emit or absorb radiation energy more effectively as it absorbs all the radiation that hits it.

In addition, black object is also a **good absorber of heat**. It cannot reflect heat effectively, so the temperature rises.

That's why the balloon in the battle melts and bursts within a short time when the uni-laser gun shot at the black area.

Heat radiation was focused on the black area of balloon and after a while, it bursts due to the great increase in temperature.

So, as we can tell from the story, knowledge is power and team work is powerful. Hope you can work as a team to acquire and further enhance your knowledge and skills.