

## 1A Class Performance (2013.5.8.)

A: Athena Wong

B: Edward Tso

C: Celia Liu

D: Joycelyn Chow

E: Amy Poon

S: Kit Sin

W: Jimmy Tsui

\*\*\*\*\*

A: Hi! Good morning everybody.

BC: Hi! Good morning.

A: How do you feel today?

C: Umm.....Not too good.

A: Why? Does anyone bully you?

C: No! It is the weather that bothers me a lot. You know, it has been raining all day long.

(*The sun appears.*)

C: Ooooh.....the sun appears again!

S: Hi hi!

C: The sun, why were you so lazy these days?

S: Oh my goodness, that's not true. Let me explain it to you. First of all, do you know what '**water cycle**' is?

C: Water cycle? What is it?

AB: I know..... I know.

A: Due to the heat of the sun, water evaporates .....

(*The picture "the water cycle".*)

B: Then it will become steam because....

S: Yeah, ...because of ME!!! Let me demonstrate my power to you...

The water: Oh no! The sun comes again!! The sun is killing "us". I'm so hot.  
I become lighter.

The sun: HAHA! Here I am. And there you go!

The water: No, no.....please!

B: Now, the **sun** heats up the water and turns it into **steam**. The steam goes into the air. This is called **evaporation**.

A: After that, the water vapour gets cold and changes back into liquid forming **clouds**. This is called **condensation**.

S: See, I am always working hard. It's the clouds that block me out and that's why you can't see me.

C: I see.

B: When the clouds get too heavy that the air cannot hold it any more, water falls back to the earth as **rain**. This is called **precipitation**.

A: When water falls back to earth, it may fall back in oceans, lakes or rivers or it may end up on land and become part of the "ground water". Water cycle starts all over again.

C: Wow, we definitely need to protect the environment.

B: Sure..... but why do you mention it now?

C: Because if we pollute the water, the rain will become very dirty.

A: Right! That rain is named as "acid rain". It is very harmful.

C: Really? Tell me more about it.

A: That's all I know. Hey, I know two senior students who are major in Chemistry and let's ask them now.

B&C:Great!

---

A: Hihi, are you free now?

D&E: Yup, what's up?

A: We would like to know more about the harmful effects of acid rain to us. Can you tell us more about it?

D: Sure. Acid rain actually affects many aspects of human life.

E: Right, the low pH of acid rain leads to the corrosion of building materials. The acid rain results in weaker damaged crops which we can't eat. Acid rain can also contaminate water reservoirs.

D: The acid in the water will corrode the pipes used to carry water bringing metals into the water system.

E: Some study also shows that pollutants causing acid rain, such as sulphur dioxide ( $\text{SO}_2$ ) and nitrogen dioxide ( $\text{NO}_2$ ), do damage human health resulting in respiratory disorder like asthma.

A: Wow, acid rain does have a negative effect on our health and everyday life..... the buildings we live in, the food we eat, and the water we drink.

B: We must take immediate actions to reduce the pollutants that cause acid rain.

C: Right. One step we can take is to conserve energy, e.g. turn off lights, computers, televisions, video games, and other electrical equipment when we're not using them.

B: We should try to limit the use of air conditioning.

A: We can also encourage our parents to buy equipment that uses less electricity. Such equipment might have the Energy Star label.

D: You guys are so smart!

E: Yup! Let's work hand in hand to build a better world!

A&B: Thanks for your invaluable advice!

D&E: You're welcome.