ROBOT GAMES

BEFORE YOU WATCH

A Answer your teacher’s questions about the photo.

B Check (√) the subjects you need to study to build robots.

☐ art     ☐ music
☐ engineering     ☐ physical education
☐ foreign language     ☐ science
☐ mathematics     ☐ technology
WHILE YOU WATCH

A Circle the correct answers.

1. Each (summer / spring), high school students from around the world gather in St. Louis, U.S.A., for the FIRST Robotics Competition.

2. Before the competition, teams of students spend (3 / 6) weeks designing and (building / training) their robots to perform specific tasks.

3. The event is very (popular / rare) and thousands of people enjoy watching the competition and supporting their favorite team.

4. The robots’ tasks involve things like (throwing / juggling) balls and carrying objects, but every year the events are changed to create a new challenge.

B Complete the notes using the words you hear.

- FIRST stands for “For Inspiration and Recognition of 1. ________________________ and Technology.”
- competitions began in 2. ________________________
- started by Dean Kamen, famous inventor of Segway 3. ________________________
- brings excitement of 4. ________________________ to science and technology
AFTER YOU WATCH

A Match the beginning of the sentences with the ends.

1. The competition does more than just [ ] [ ] a. their ability to work together as a team.
   [ ] [ ] b. lifelong friendships.
   [ ] [ ] c. teach students about engineering.

2. And for many students, it’s not only robots that they build, but also
   [ ] [ ] a. their ability to work together as a team.
   [ ] [ ] b. lifelong friendships.
   [ ] [ ] c. teach students about engineering.

3. It also helps the students improve their confidence and
   [ ] [ ] a. their ability to work together as a team.
   [ ] [ ] b. lifelong friendships.
   [ ] [ ] c. teach students about engineering.

B Match the underlined words to their meanings.

1. Each team is helped by an adult who guides the students and teaches them about robotics.
   a. a person who makes something new—e.g., a machine or way of doing things
   b. sitting and watching people play something, hoping they will win
   c. something that is difficult, something that tests your abilities
   d. showing the way, advising or leading others

2. It was started in 1989 by inventor Dean Kamen, who’s famous for creating the Segway scooter.

3. The event is very popular and thousands of people enjoy watching the competition and supporting their favorite team.
   a. a person who makes something new—e.g., a machine or way of doing things
   b. sitting and watching people play something, hoping they will win
   c. something that is difficult, something that tests your abilities
   d. showing the way, advising or leading others

4. The robots' tasks involve things like throwing balls and carrying objects, but every year the events are changed to create a new challenge.
   a. a person who makes something new—e.g., a machine or way of doing things
   b. sitting and watching people play something, hoping they will win
   c. something that is difficult, something that tests your abilities
   d. showing the way, advising or leading others

C Complete the sentences using the correct form of the words in the box.

One word will be used twice.

be  build  go  take

Do you love 1. ____________________________ things apart? Do you like
2. ____________________________ new things? Then you will really enjoy
3. ____________________________ on a robotics team. Teams work together on
4. ____________________________ robots. Then they go to competitions.
5. ____________________________ to competitions can be really fun.
Design a robot for a specific task. Draw your robot in the box. Explain how it works to a partner.

My robot throws balls. It's arm moves like this . . .
BEFORE YOU WATCH

Label the pictures using words from the box.

- skateboard
- skis
- surfboard
- wheelchair
Guess. Look at the photo. Circle the correct answers.

1. Life Rolls On is an organization for ____ to participate in sporting events.
   a. injured athletes       b. people with disabilities
2. People ____ to work at Life Rolls On events.
   a. volunteer              b. pay money
3. The sporting events are ____.
   a. just for children      b. for people of all ages
4. The organization also ____.
   a. holds educational events      b. organizes music concerts
WHILE YOU WATCH

A Check your answers above to Before You Watch B.

B Write the ages of the people from the video.

1

2

3

AFTER YOU WATCH

A Complete the chart.

<table>
<thead>
<tr>
<th>Name of organization:</th>
<th>Life 1. __________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main purpose:</td>
<td>to help people with 2. ____________ participate in 3. __________________________</td>
</tr>
<tr>
<td>Has existed for more than:</td>
<td>4. ____________________________ years</td>
</tr>
<tr>
<td>Also educates people about:</td>
<td>spinal cord 5. __________________________</td>
</tr>
</tbody>
</table>
Complete the sentences using the correct form of verbs in the parentheses.

1. I _________________________ (surf) since I was a kid.
2. She _________________________ (never/surf).
3. He _________________________ (come) to these events since he was eight.
4. Life Rolls On _________________________ (inspire) people for more than ten years.

Match the underlined words to their meanings.

_____ 1. Life Rolls On also holds educational events to raise awareness of spinal cord injury, and get people to support those who suffered injuries like these.

_____ 2. It’s a special organization that wants to show people that they shouldn’t let their disabilities stop them from doing what they want.

_____ 3. The organization has been inspiring people for more than 10 years, and continues to make a meaningful impact in the lives of many.

_____ 4. “It’s awesome that these people organize such events to push the limits, and I’m pretty stoked about it.”

_____ 5. “It’s awesome that these people organize such events to push the limits, and I’m pretty stoked about it.”

a. a certain physical condition, such as not being able to use your hands or legs
b. to try and perform better than what is normally possible
c. to help people know about a situation
d. to be very excited about something
e. an important change

Work with a partner. Discuss the questions below.

1. Are there ways for disabled people to play or watch sports (live—not on TV) in your community?
2. Are sports buildings or fields in your community “wheel-chair accessible” (can a wheelchair enter and move about easily)?
3. Are there things your city could do to make it easier for disabled people to enjoy watching or playing sports?
ECO-FUEL AFRICA

BEFORE YOU WATCH

**A** Guess. In Uganda, what are some of the problems of using wood as fuel? Write down three things. Use the photos on this page to help you.

1. ____________________________
2. ____________________________
3. ____________________________

**B** Guess. Look at the photo below. Circle the correct answers.

Sanga Moses is a National Geographic Explorer. He noticed a problem in his hometown in Uganda. Many children were missing school because they 1. (had to work / were sick).

He knew they spent a lot of time 2. (looking for firewood / breathing in smoke).

He wanted to find 3. (a way to clean the air / another source of fuel).

He 4. (was able / is still trying) to find a solution.
WHILE YOU WATCH

A Check your answers to Before you watch B.

B Look at the photos. Then match the captions to the correct photos.

- A lot of them can’t go to school because they don’t have the time.
- We work with many farmers and women.
- About 105,000 families are already using this fuel on a daily basis in Uganda.
- By bringing clean cooking fuel to people, we are saving forests, stopping air pollution, and helping farmers and women earn money for their families.
# AFTER YOU WATCH

## Label the parts of Sanga Moses’ talk.

<table>
<thead>
<tr>
<th>The problem</th>
<th>What Sanga did</th>
<th>The result</th>
<th>Sanga’s advice</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Follow your heart. It’s amazing what can happen if you believe in your dreams and act upon them.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Kids in Uganda spend a lot of time carrying wood because their families need it for cooking. A lot of them can’t go to school because they don’t have the time.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. About 105,000 families are already using this fuel on a daily basis in Uganda. And in the next ten years, we want to reach 16 million families.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. I thought about what I could do, and decided to quit my job... I asked a university professor for some advice on what I should do about my idea. I managed to get some help from his students. Slowly, we found a way to create clean cooking fuel using farm waste like corn waste.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Put the words in order to make a sentence.

1. You / should / other sources of fuel / think of

2. quit / You / your job / could

3. would / I / I / were / follow my heart / If / you

4. tried / Have / electric burners / you

5. try / Why / you / using / corn waste / don’t
C Circle the correct meanings of the underlined words.

“A lot of them can’t go to school because they don’t have the time. This **inspired** me to think about an **alternative** source of fuel.”

1. inspired
   - a. made Sanga feel very upset
   - b. made Sanga want to do something

2. alternative
   - a. another, different
   - b. a larger amount

“I **managed** to get some help from his students.”

3. managed
   - a. Sanga was able to do something.
   - b. Sanga was in charge of others.

“Slowly, we found a way to create clean cooking fuel using farm **waste** like corn **waste**.”

4. waste
   - a. farm products that are of low quality
   - b. parts of a farm product that can’t be used

“Now, I am the CEO of **Eco**-Fuel Africa.”

5. Eco
   - a. less expensive
   - b. good for the earth

D Write about Sanga’s problem and solution in your own words.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A lot of them can’t go to school because they don’t have the time.</td>
<td>This inspired me to think about an alternative source of fuel.</td>
</tr>
<tr>
<td>Sanga managed to get some help from his students.</td>
<td>Sanga and his students found a way to create clean cooking fuel using farm waste.</td>
</tr>
<tr>
<td>Sanga and his students created clean cooking fuel using farm waste.</td>
<td>Sanga is now the CEO of Eco-Fuel Africa.</td>
</tr>
</tbody>
</table>
BEFORE YOU WATCH

A Answer your teacher’s questions about the photo below.

B Decide if the sentences are about helping or hurting animals. Write help or hurt.

1. Animal habitats are destroyed. _____________________________
2. People learn more about animals. _____________________________
3. Some animal species become extinct. _____________________________
4. Animals are kept at zoos and aquariums. _____________________________
WHILE YOU WATCH

A Complete the sentences using the numbers you hear.

1. For more than ____________ years, he has been a photographer for National Geographic Magazine.

2. He has worked on ____________ photo essays so far.

3. The Photo Ark was started out of the need to protect animals from extinction.
   It’s a ____________-year project to take studio photos of the world’s many species.

4. He’s been doing it for more than ____________ years . . .

5. . . . and has photographs of around ____________ different species.

B Match the main ideas to the sentences.

- a. length of project
- b. purpose
- c. how it helps
- d. future plans
- e. what Sartore does

_____ 1. The Photo Ark was started out of the need to protect animals from extinction.
_____ 2. It’s a 20-year project . . .
_____ 3. The places he visits help to educate people about animals and the problems they face.
_____ 4. He mostly photographs animals that are kept at the world’s zoos and aquariums.
_____ 5. Sartore says he’s likely to continue this project for a long time.
AFTER YOU WATCH

A Match the words to their meanings.

1. habitat  ○ ○ a. taking care of the Earth, using less resources like water and electricity
2. species  ○ ○ b. a building where people go to see fish or other sea animals
3. aquarium  ○ ○ c. when no more of a certain kind of plant or animal is alive
4. extinction  ○ ○ d. the place where someone or something lives
5. conservation  ○ ○ e. a group of living things that consists of similar individuals

B Complete the sentences using words from the box.

are kept  are saved  are killed  have been photographed  is destroyed

Joel Sartore thinks people need to do more to help animals. More habitat

1. ___________________________ each year. Also, many animal species
2. ___________________________.

For the Photo Ark project, 5,000 species 3. ___________________________. These animals

4. ___________________________ at zoos and aquariums. The truth is that when animal species

5. ___________________________, we're actually saving ourselves and our own environment.

C Work with a partner. Read the quote from the video and answer the questions.

“They say that people will only save what they love. And they certainly can’t love something if they don’t know about it.”

1. What does this quote mean?
2. What kind of animals do you love?
3. How can you help protect your favorite animals?
4. Which animal would you like to learn more about?
AFTER YOU WATCH

Match the words to their meanings.

1. habitat  a. taking care of the Earth, using less resources like water and electricity
2. species  b. a building where people go to see fish or other sea animals
3. aquarium  c. when no more of a certain kind of plant or animal is alive
4. extinction  d. the place where someone or something lives
5. conservation  e. a group of living things that consists of similar individuals

Complete the sentences using words from the box.

Joel Sartore thinks people need to do more to help animals. More habitat 1. each year. Also, many animal species 2. .
For the Photo Ark project, 5,000 species 3.   . These animals 4. at zoos and aquariums. The truth is that when animal species 5. , we're actually saving ourselves and our own environment.

Work with a partner.

Read the quote from the video and answer the questions.

"They say that people will only save what they love. And they certainly can't love something if they don't know about it."

1. What does this quote mean?
2. What kind of animals do you love?
3. How can you help protect your favorite animals?
4. Which animal would you like to learn more about?

Work with a partner.

Make up a story using your answers to questions 2 and 3 in After You Watch C. Tell the story to your partner.

I really love cats. I could volunteer at a rescue shelter. I'd like to learn more about . . .
BEFORE YOU WATCH

A Label the photos using words from the box.

- cave
- jungle
- mountain
- river
- limestone

1. ________________  
2. ________________  
3. ________________  
4. ________________  
5. ________________

B What do you know about caves? Circle your answer.

1. Caves are formed when ____.
   a. wind eats away rock  
   b. rainwater drips down the cracks in a rock

2. People who like to explore caves are called ____.
   a. cavers  
   b. excavators

3. ____ plants or animals can live in caves.
   a. No  
   b. Some

4. Hang Son Doong is the world’s ____ cave.
   a. largest  
   b. oldest

5. People have been exploring Hang Son Doong since ____.
   a. 1909  
   b. 2009
WHILE YOU WATCH

Look at the photos. Then match the captions to the correct photos.

a. The video was made by using a flying remote-controlled camera which can go up into the highest areas of the cave and look down on below.
b. The video shows the magical scenery of the cave.
c. Misty clouds are formed by humidity as it rises into cool air.
d. Entire jungles stretch across the cave floor and 300-million-year-old fossils have been found.
Answer the questions. If the answer is not given, leave the line blank and check “Not given.”

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
<th>Not given</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. In which country is the cave located?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. How big is the cave?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Who took the video?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. How many people were on Deboodt’s team?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Is the cave open to the public?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

AFTER YOU WATCH

Match the numbers to their meaning in the video.

1. 8  ○ ○ a. the year Ryan Deboodt visited the cave
2. 300 ○ ○ b. the year British cavers explored the cave
3. 2009 ○ ○ c. number of the fossils (in millions of years) found in the cave
4. 2013 ○ ○ d. the year the cave became open to the public
5. 2014 ○ ○ e. number of days Ryan Deboodt spent in the cave

Circle the best paraphrase for each sentence.

1. “The cave was created by a river which has eaten away the limestone of Vietnam’s Annamite Mountains.”
   a. The force of a river slowly cut into the rock and made the cave.
   b. The limestone in the river attached together and formed a cave.
2. “The video was made by using a flying remote-controlled camera which can go up into the highest areas of the cave and look down on below.”
   a. Deboodt was able to control the camera from the ground.
   b. Deboodt had a camera attached to his plane. He flew the plane inside the cave.
3. “When Deboodt released his video, it quickly went viral on the Internet.”
   a. After Deboodt put his video online, many people watched it.
   b. After watching the video, many people shared their own videos of the cave.
4. “People couldn’t believe that a place like this could stay hidden for so long.”
   a. People had tried to keep the place a secret for a long time.
   b. People were surprised no one had discovered the cave earlier.
5. “The video shows the magical scenery of the cave.”
a. The video shows how strange things happen in a cave.
b. The video shows how beautiful the natural landscape is.

C Complete the sentences using the correct forms of words in the parentheses. Watch the video again to check your answers.

1. “The cave ____________________________ (create) by a river which has eaten away the limestone of Vietnam’s Annamite Mountains.”
2. “Since it ____________________________ (explore) by British cavers in 2009, very few people have been inside this incredible place.”
3. “This amazing video ____________________________ (take) by Ryan Deboodt who visited the cave in 2014.”
4. “The video ____________________________ (make) by using a flying remote-controlled camera . . . “
5. “Misty clouds ____________________________ (form) by humidity as it rise into cool air.”

D Work in small groups. Discuss the following situation.

Your group is going to explore Hang Son Doong for 8 days. What things does everyone need to pack and which things do only some people need to pack? Write E for everyone or S for some people.

- Food ___
- Stove, dishes, forks, knives, spoons ___
- Water bottle ___
- Water filter ___
- Tent ___
- Map ___
- Sleeping bag ___
- Compass ___
- GPS ___
- Rope ___
- Shovel ___
- Matches ___
- Knife ___
- Flash light ___
- Camera ___
- Batteries ___
- First aid kit ___
- Sunscreen ___
- Sunglasses ___
- Warm clothing ___
- Hiking boots ___
- Other: ____________________________

Other: ____________________________
## BEFORE YOU WATCH

**A** Match the words to their meanings.

1. polyps  ○ ○ a. place where many sea creatures live
2. coral reefs  ○ ○ b. a person who studies life in the ocean
3. climate change  ○ ○ c. tiny, soft-bodied organisms
4. algae  ○ ○ d. plant-like organisms that usually grow in water
5. marine biologist  ○ ○ e. long-term change in the Earth’s weather

**B** Read the excerpt from the video. Why do you think coral reefs are disappearing?

“Here, at the Heron Island Research Station, marine biologist Ove Hoegh-Guldberg is studying coral reefs. Like the rest of the planet, our oceans are in trouble. Hoegh-Guldberg has been studying the effect of climate change on coral reefs. His conclusion is that coral reefs are disappearing.”
WHILE YOU WATCH

A Complete the sentences using the words you hear.

1. “The fact they are disappearing should be a _________________ to us all about the negative effects climate change can have on our planet.”

2. “Above __________________________ degrees Celsius, the reef begins to die.”

3. “There’s another great __________________________ to the reefs’ survival—the increasing amount of carbon dioxide in ocean waters.”

4. “So by changing our oceans, we are actually causing many species to be at risk of going __________________________.”

B Check (✓) the things that are causing coral reefs to die.

- increased amount of carbon dioxide in ocean water
- lack of carbon dioxide in ocean waters
- increased amount of acidity in the ocean water
- rise in water temperatures
AFTER YOU WATCH

Put the events in order.

1. People cut down too many trees.
2. b. The ocean absorbs more carbon dioxide than usual.
3. c. More carbon dioxide goes into the air.
4. d. Marine plants and animals lose their homes.
5. e. People cut down too many trees.

a. Ocean water becomes acidic and eats away polyp skeletons.

Complete the sentences using words from the box.

bleaching event  carbon dioxide  coral reefs  polyp

1. The skeletons of thousands of tiny polyps form ____________________________ .
2. When ocean water gets too warm and the reef begins to die, it is called a ____________________________ .
3. ____________________________ is a type of gas that can make ocean water acidic.
4. A ____________________________ is a tiny sea creature.
C Rewrite the sentences. Use which or who. Two answers are possible.

1. Ove Hoegh-Guldberg is a marine biologist. He is studying coral reefs.

2. Coral reefs are a beautiful part of the Earth. They are disappearing.

3. Tiny polyps make up coral reefs. Tiny polyps are covered in an outer skeleton.

4. Carbon dioxide is a type of gas. It is absorbed by oceans.

5. Marine plants and animals live in this part of the coral reef. They have now lost their homes.

D How do you think we can reverse the effects of climate change?
See the chain of events in After You Watch A and write opposite events below.

1. People cut down fewer trees and conserve more resources.

2. ______________________

3. ______________________

4. ______________________

5. ______________________
TUTANKHAMUN

BEFORE YOU WATCH

A Read the sentences and guess the missing words. Use the clues in parentheses to help you.

“King Tutankhamun is a symbol of the ancient Egyptian civilization. Tut was just 7 years old when he became 1. ____________________________.

(kind of ruler)
To his people he was half man, half

2. ____________________________ . But until his discovery in 1922, Tut was unknown. There is almost no record of his life anywhere in 3. ____________________________ except on the walls of his 4. ____________________________ . Somehow his life ended suddenly when he was just 18. No one knows exactly 5. ____________________________ .”

(name of country)
(a place of burial)
(question word)

B Guess. Write the answers.

When they were investigating King Tut’s death, scientists found the following:

• evidence of many sharp injuries
• hunting equipment in King Tut’s tomb

1. Based on the evidence, how do you think King Tut died? Write at least two theories.

__________________________________________

__________________________________________

2. How do you think scientists tried to find out the real cause of King Tut’s death?

__________________________________________

__________________________________________
WHILE YOU WATCH

A Check your answers to Before You Watch A.

B Look at the photos. Then match the captions to the correct photos. One caption is extra.

a. “Tut was just 9 years old when he became king.”
b. “No one knows exactly why.”
c. “One image shows some interesting evidence.”
d. “The scanning machine has been shut down and Tut returns to his coffin, safe once more.”
e. “3,000 years after he died, the story of the boy pharaoh lives on.”

1
2
3
4
**AFTER YOU WATCH**

A Decide if the statements are theories or facts. Write T for theory and F for fact.

1. There were hunting instruments in Tut’s tomb. ____
2. Some scientists believe Tut was murdered. ____
3. Tut may have died in a hunting accident. ____
4. Tutankhamun might have died in a war. ____
5. Tut’s body had many sharp injuries. ____
6. One of Tut’s legs was broken. ____

B Circle the correct answer.

1. Scientists think King Tutankhamun (could have died / must have died) in a war.
2. He (couldn’t have died / must have died) from natural causes. There’s too much evidence that he was badly injured.
3. Scientists think the sharp injuries (couldn’t have been / might have been) from a weapon.
4. Still, scientists (can’t be / must be) sure about Tut’s death. They want to find more information.

C Match the words with their explanations.

1. war O O a. a situation in which people or groups fight against each other
2. clues O O b. the part of a tomb where the body lies
3. coffin O O c. evidence to help you solve something
4. experts O O d. a situation in which no one knows why something has happened
5. mystery O O e. scientists or other highly-trained people in a specific field of study
Solve the mystery! Choose one of the theories about Tut’s death and write a short story about the day he died. Include what happened and the reasons why it happened (e.g., someone else wanted to be king, it was just an accident).
GREEN MUSEUM

BEFORE YOU WATCH

A Look at the title of the video and the photos below. Guess what the video is going to be about. Circle the correct answer.

a. a museum with green-colored walls and objects
b. a museum that has live plants and animals
c. ways a museum stays environmentally-friendly

B Label the photos using words from the box.

dome tunnel canopy aquarium

1. 
2. 
3. 
4.
WHILE YOU WATCH

A The aquarium will contain many different types of animals. Circle all the animals that are mentioned.

- stingray
- dolphin
- dugong
- fish
- whale
- turtle
- coral
- shark

B Circle the correct answers.

1. The California Academy of Sciences is in ____.
   a. San Francisco
   b. Los Angeles

2. It is the world's ____ green museum.
   a. first
   b. largest

3. What does Chris Andrews say about the rain forest exhibit?
   a. It'll smell and feel like a real rain forest.
   b. It'll be as good as replacing nature.

4. The water for the aquarium comes from ____.
   a. Pacific Ocean
   b. Sacramento River
AFTER YOU WATCH

A Circle the correct word(s).

The California Academy of Sciences is 1. (the biggest / bigger) green museum in the world. Its dome is 2. (too tall / tall enough) for large trees to grow inside. Visitors might think it’s 3. (as hot and humid as / too hot and humid). But that is to make it 4. (as real as / more real) possible. It also has an aquarium with 5. (too deep / the deepest) salt-water tank. Diego, the turtle, is 6. (happier / as happy as) in his new tank than he was before.

B Complete the sentences using words from the box.

tank exhibit elevator bathtubs

1. The rain forest ________________________ is like nothing else in the world.
2. Visitors ride a glass ________________________ all the way down to a tunnel under the forest.
3. After several hours, the coral reef ________________________ is finally filled.
4. You could fill 5,000 ________________________ with all the water in the tank.

C Read Chris Andrew’s statement and answer the questions with a partner.

“Without a doubt, creating a living rain forest, inside a building, in San Francisco, is a challenge.”

How do you think building a green museum was challenging? How does being “inside a building” and being in a big city like San Francisco make it more difficult?

It must have been very difficult to make a forest inside a building. They had to make it deep enough to fit tree roots and tall enough for the trees to grow.
Work in a group. Imagine you want to create a green museum. Draw a plan for your museum. Label all the important features.
WALK OF FAME

BEFORE YOU WATCH

A  Guess. Look at the photo. Circle the correct answers.

The Hollywood Walk of Fame is a very special 1. (sidewalk / crossing) that goes for 15 blocks on Hollywood Boulevard. It has around 2. (200 / 2,500) stars set in concrete. The stars represent famous people in the 3. (entertainment / film) industry.

B  Guess. Look at the photo. Circle the correct answers.

The TCL Chinese Theatre is a very fancy 1. (drama / movie) theatre. Outside there the entrance are 2. (concrete / clay) blocks with the handprints, footprints, and 3. (photographs / signatures) of around 200 famous celebrities.
WHILE YOU WATCH

A  Check (✓) whether the boy or the girl says the statements below.

1. “Hollywood! I’d love to go there one day. You’ve been there, haven’t you?”

2. “Each one has the name of someone who has been successful in the entertainment industry.

3. “Yeah, it is. There are more than 2,500 stars there. The first ones were placed in 1960.”

4. “Oh look! There’s the cast of the Harry Potter movies. They look very young there, don’t they?”

5. “No, I didn’t actually. Did you know that in 1968, the TCL Chinese Theatre was the first…”

Circle the correct answers.

1. Whose name did we see on a star in the video?
   a. Harrison Ford’s
   b. Mickey Mouse’s

2. Where do we see most of the celebrities in the video?
   a. walking down the Hollywood Walk of Fame
   b. outside the TCL Chinese Theatre

3. Does the boy agree with the girl about the Harry Potter movies?
   a. Yes, he says the ending of the last movie was predictable.
   b. No, he says he loved all the Harry Potter movies.

4. Why does the girl say “sorry” at the end of the video?
   a. because she wasn’t listening to the boy
   b. because she didn’t like the boy’s favorite movie
AFTER YOU WATCH

A Read the girl’s and the boy’s opinions. Decide whether they like the movies or dislike them. Write L for like or D for dislike.

1. ____ “I thought the first [Harry Potter] movie was brilliant . . .”
2. ____ “. . . but the others were a bit overrated.”
3. ____ “And I thought the ending of the last movie was really disappointing.”
4. ____ “Yeah it was a bit predictable . . .”
5. ____ “Oh look! Jackie Chan! I love his movies!”

B Complete the tag questions.

1. “You’ve been there, ____________________________?”
2. “That’s Harrison Ford’s star, ____________________________?”
3. “They look very young there, ____________________________?”
4. “It was a bit predictable, ____________________________?”
5. “You’re more interested in celebrities than history, ____________________________?”

C Complete the sentences using words from the box.

fame predictable overrated celebrity

1. In my opinion, he’s a hugely ____________________________ actor.
2. She became a ____________________________, as soon as her movie released.
3. The ending of the movie was really ____________________________.
4. He moved to Los Angeles in search of ____________________________.
Look at the names of stars who have been added to the TCL Chinese Theatre since 2010. Which names are you familiar with? What movies are they in? How did you like these movies?

<table>
<thead>
<tr>
<th>Jerry Bruckheimer</th>
<th>Lee Byung-hun</th>
<th>Peter Cullen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cher</td>
<td>Ahn Sung-ki</td>
<td>Gena Rowlands</td>
</tr>
<tr>
<td>Robert Duvall</td>
<td>Christopher Nolan</td>
<td>Ethan Hawke</td>
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<tr>
<td>Helen Mirren</td>
<td>Robert De Niro</td>
<td>Vince Vaughn</td>
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<tr>
<td>Peter O’Toole</td>
<td>Jane Fonda</td>
<td>Christopher Plummer</td>
</tr>
<tr>
<td>Jennifer Aniston</td>
<td>Jackie Chan</td>
<td>Vin Diesel</td>
</tr>
<tr>
<td>Mickey Rourke</td>
<td>Jerry Maren</td>
<td>Dwayne Johnson</td>
</tr>
<tr>
<td>Kristen Stewart</td>
<td>Sandra Bullock</td>
<td>Justin Lin</td>
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<tr>
<td>Taylor Lautner</td>
<td>Reng Xiaogang</td>
<td>Zhao Wei</td>
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<tr>
<td>Robert Pattinson</td>
<td>Emma Thompson</td>
<td>Huang Xiaoming</td>
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<tr>
<td>Russ Tamblyn</td>
<td>John Goodman</td>
<td>Katy Perry</td>
</tr>
<tr>
<td>George Chakiris</td>
<td>Ben Stiller</td>
<td>Jennifer Lawrence</td>
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<tr>
<td>Rita Moreno</td>
<td>Jerry Lewis</td>
<td>Josh Hutcherson</td>
</tr>
<tr>
<td>Michael Jackson</td>
<td>Melissa McCarthy</td>
<td>Liam Hemsworth</td>
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<tr>
<td>Kim Novak</td>
<td>Mel Brooks</td>
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ROBOBEES

BEFORE YOU WATCH

A Draw a picture. When you hear the word “robot,” what comes to your mind?
Guess. Robobee is the name of a robot. Answer the following questions about a RoboBee.

1. What do you think it looks like?
2. How big do you think it is?
3. What do you think its purpose is?

While You Watch

Check (✓) the activities that you see people doing.

☐ testing robots   ☐ working in a laboratory
☐ using a computer ☐ walking outside near bees
☐ working together ☐ displaying robots at a show
☐ taking a robot outside to fly ☐ building small robots

Complete the sentences using the words you hear.

1. “I like to observe insects like bees. They are ____________________________, but efficient.”
2. “We are making robots the size of insects, and robots made from completely soft materials.
   We get ____________________________ from nature. ”
3. “Bees can't do much on their own. But when they work in ____________________________,
   they can do so much more.”
4. My team wants to build robots that behave in the same way, and that will eventually make
   a big ____________________________ to all our lives.
AFTER YOU WATCH

A Match the sentences that go together.

1. We face many challenges while building the robots
2. Bees can’t do much on their own.
3. Many of our designs don’t work.

a. But when they work in groups, they can do so much more.
b. We can’t find robot parts in the shops, so we have to build everything ourselves.
c. We build and test the robots over and over again. But every time we fail, we’re able to learn something new and improve our designs.

B Circle the correct inference or meaning of the sentences.

1. I like to observe insects like bees.
   a. Robert Wood likes to watch bees to see what they do.
   b. Robert Wood likes to catch insects and bring them to his lab.

2. They [bees] are small, but efficient.
   a. Because of their size, bees are not able to travel very far.
   b. Their size may be small, but bees work hard and move quickly.

3. My team is making robots that are smaller, cheaper, and faster than traditional robots.
   a. Traditional robots work longer and are more popular than Wood’s robots.
   b. Traditional robots are bigger, slower and more expensive than Wood’s robots.

4. We believe that 20 years in the future, robots like these can help us do dangerous tasks such as search-and-rescue operations.
   a. It would be better for robots to do dangerous tasks than humans.
   b. Robots will soon be able to do all the things that humans can do.

5. Bees can’t do much on their own.
   a. Bees like to work by themselves
   b. One bee cannot do very much by itself.
C Complete the sentences using verbs from the box. One verb will be used twice.

Choose: could / could be / were / wishes

1. If your robot __________ go anywhere, where would you send it?
2. Robert Wood __________ his robots could go on search-and-rescue missions someday.
3. If his RoboBee design worked, it __________ very useful.
4. Wood’s team __________ more of their designs would work.
5. If it __________ the year 2035, would there be lots of robot insects?

D Circle or write your answers. Explain your answers to a partner.

1. I wish I had a robot that could _____.
   a. fly
   b. go underwater
2. If I created a robot, it would _____.
   a. make me rich
   b. solve one of the world’s problems
3. Which would you like to help build?
   a. Robert Wood’s small robots
   b. large robots used in factories (e.g., to move car parts in a factory)
4. If you had a robot that could do one of your daily chores, which chore would it be?
   ____________________________________________

I wish I had a robot that could fly. I would send it to outer space with a camera and take pictures.
BEFORE YOU WATCH

A Answer your teacher’s questions about the photo.

B How would you rank the following situations? Check (✓) your answer.

How risky would it be to help someone in these situations?

<table>
<thead>
<tr>
<th>Situation</th>
<th>not risky</th>
<th>a little risky</th>
<th>very risky</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. You see a child that looks lost.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. You see someone fall and get hurt.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. You see a person on the street asking for money.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. You see someone drop their things on the ground.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5. You see a person fighting with a thief who is trying to take their bag.</td>
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<td></td>
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</tr>
</tbody>
</table>
**WHILE YOU WATCH**

Do these people help the woman? Check (✓) yes or no.

1. Yes [ ] No [ ]
2. Yes [ ] No [ ]
3. Yes [ ] No [ ]
4. Yes [ ] No [ ]
5. Yes [ ] No [ ]
6. Yes [ ] No [ ]
7. Yes [ ] No [ ]
8. Yes [ ] No [ ]
How long did it take the single diner vs. the group of diners to react to the fallen man?
Write the correct answers under the photos.

1. ____________________ seconds
2. ____________________ seconds

AFTER YOU WATCH
A Match the main ideas to the sentences.

a. the purpose of the experiments    c. questions the experiment tried to answer
b. how the experiments were done    d. the results of the experiment

____ 1. The experiment was to see how people react to other people's problems.
____ 2. Do people in groups react more quickly than people by themselves?
____ 3. Groups of people took nearly three times as long to help.
____ 4. Would the biggest and strongest come to the rescue?
____ 5. Actors were hired. Hidden cameras were put in place.
____ 6. Three out of ten people helped the woman.

B Match the underlined words to their meanings. Use the words from the box.

bystander    found    froze    mugger    single

1. The ____ thief quietly walked up behind the man and took the wallet out of his coat pocket.
2. In the experiment, the lone dinner reacted more quickly than the group of diners.

3. When I opened the door and saw a man holding a knife, I could not move.

4. Because of the experiment, we discovered that you cannot know a person's character by the way they look.

5. There was a person standing nearby when the car crashed into the tree.

**Put the words in order to complete the sentences.**

1. (you / if / a man / saw) trying to steal a woman's bag, what would you do?

2. (been / Hidden / have / cameras / placed) to record what happens . . .

3. If you were this woman, (you / help / try / to / would)?

4. This time (placed / hidden / have / cameras / been) in a public restaurant.

5. In the experiment, (groups / it / found / that / was) of people . . .

**Discuss the following questions with a partner or in small groups.**

Have you seen a real situation like one in the experiments? What did people do? Did they help or stay away? What does our reaction say about our character?
BEFORE YOU WATCH

Look at the photo. What kind of food do you think astronauts eat in space? How is it different from the food we eat on Earth?

A

Guess. Complete the sentences using the correct words.

“Since the start of human space flight, NASA has worked to improve the food for its 1. __________________________. NASA food 2. __________________________ try to make menus that provide astronauts the food they need to live in space. Eating on Earth is very different from eating in 3. __________________________. Space food needs to be easy to hold and eat in zero 4. __________________________. Of course, it should also be healthy and taste 5. __________________________.”
WHILE YOU WATCH

A Check your answers to Before You Watch B.

B Look at the photos. Then complete the captions by writing the words you hear.

When food is

1. __________________________-dried,
most of the water is removed from inside it,
so the food becomes much
2. __________________________.

These astronauts are planning a

3. __________________________
to celebrate Thanksgiving.

4. __________________________
food is eaten in space, but only rarely.
**AFTER YOU WATCH**

**A** Match the beginning of the sentences with the ends.

1. It’s important that space food  ○ ○ a. is freeze-dried.
2. A lot of the food astronauts eat  ○ ○ b. keeps astronauts happy as well as healthy.
3. Space food needs to be  ○ ○ c. easy to hold and eat in zero gravity.
4. It’s important NASA astronauts get  ○ ○ d. a balanced-diet.

**B** Circle the correct words.

1. Eating on Earth is very different from (**to eat** / **eating**) in space.
2. Freeze-dried food is much (**lighter** / **lightest**) than normal food.
3. A refrigerator would be (**heavy enough** / **too heavy**) for a spacecraft.
4. You can’t enjoy a Thanksgiving meal without turkey and green bean casserole, (**can** / **can’t**) you?
5. NASA food scientists, (**who** / **which**) make the menus for astronauts, are always trying to make astronaut’s space food better.

**C** Complete the categories using words from the box.

- casserole
- celebrate
- dehydrate
- lightweight

1. **process of removing water**
   - freeze dry

2. **kinds of food**
   - dessert
   - salad

3. **Thanksgiving**
   - a special meal
   - turkey

4. **food in space**
   - easy to hold
   - stays good a long time
D Imagine you and your partner are astronauts. What kind of food should you eat in these situations?

- You feel hungry all the time.
- Your partner thinks he/she is getting a cold.
- You want to munch on something while watching a movie.
- Your partner wants to celebrate something—maybe a family member’s birthday back home.

Here, have some candy coated peanuts.