



Life Gift

An Organ and Tissue
Donation Adolescent Awareness Curriculum
2016

Grade 6

GRADE 6

Standards

- P-6.1.4: Define what it means to be a blood and living organ donor
- P-6.3.1: Discuss the validity of health information, products, and services
- P-6.8.1: State a health-enhancing position on a health-related topic and support it with accurate information

Essential Questions:

- What does it mean to donate?
- Why do you think blood and living organ donation is important?
- Name a way a person can be a living donor.

Lesson 6-1

Brainstorm the following with your class:

Today we are going to talk about donation.

- What does it mean to donate?
Donating is giving something without expecting something in return.
- There are different types of donations that can be **recycled** from our bodies. Some people donate blood. You may have seen a blood drive at your school, community or your place of worship.
- There are different types of donation such as organ, and tissue donation. Perhaps someone in your family has received a blood donation or received an organ donation or, maybe they have donated.

Why do you think donating blood or an organ is important?

Donation helps saves lives. We are going to discuss each one of these separately.

Blood donation:

First of all, let's discuss blood donation.

- Every 2 seconds someone in the US needs blood. One blood donation can help save up to three lives.
- You can't manufacture blood – it can only come from volunteer blood donors.

Why people may need blood:

- Sometimes people may be in an accident and they lose a lot of blood.
- Sometimes people are born with a disease that causes them to need frequent blood transfusions.
- Cancer patients or people who need a surgery may also need blood.

How much blood does your body need?

- Have students guess the amount of blood or call out different amounts. Students will do a thumbs up for agree or a thumbs down for disagree after an amount is shared.
- Your body needs about 10 pints of blood. The teacher will take a pint jar and continue to count 10 pints of liquid (i.e., water with red food coloring) and pour in a larger container.

Why do you think people don't donate?

- Never thought of it
- Don't like needles
- Perhaps they are just scared.

How old do you have to be to donate blood?

A person must be 17 years old or 16 with parental consent. People can donate throughout their life.

Is Donated Blood safe?

All blood is tested for infectious diseases before it is released to hospitals.

Benefits of Blood Donation:

- Makes your body healthy by creating new blood cells
- Can provide test results for certain diseases
- Can provide you with your blood type

Homework:

Interview five people with a driver's license and write their answers to the following questions:

1. Do you have the "organ donor" logo on your license?
2. Why or why not?

Bring this information with you to class tomorrow.

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Lesson 6- 2

Bell ringer: Discuss the questions you had for homework and share your results with 4 other people.

1. Add the total number of those who are verified organ donors on their driver's license and
2. Compile a list of the reasons some choose not to be an organ donor.

Review:

- Review what students learned from their interviews and create a graph reflecting information gathered from above and discuss the results. (Integration of Math Standards)
- Compare the numbers of people that donate blood with those that don't donate blood and discuss the reason people do not donate blood.
- Develop ideas to increase participation of donating blood.

Discuss living donation:

- Did you know there are many donations that can be made from a person that is still living? These are called living donations and it is a voluntary process.
- Most types of living donation consist of regenerative tissue. This type of tissue grows back or regenerates itself.
- Blood donation is also considered a living donation. The blood replenishes itself once a person donates blood.
- Bone marrow is another type of donation. Bone marrow regenerates itself. You will learn more about this in the 7th and 8th grade.

What does Regenerative mean?

It means that organ can grow back or in the case of blood or bone marrow it will regenerate-replace what was taken.

- The liver is the body's only regenerative organ. So a portion of the liver can be removed from a living donor and transplanted into a recipient and both the liver segment in the recipient and in the donor will grow to normal size in a few months.
- The liver is able to do the extra work necessary so that both the donor and the recipient can be healthy.

What are Non-Regenerative Donations?

- These tissues do not grow back. Living donors can donate to whomever they choose such as a friend, or a loved one (provided they are a medical match).
- A kidney can be donated since most everyone has two kidneys. The remaining kidney will carry out the normal functions of both kidneys.

What is a common disease in SC that might cause a person to need a kidney? *Diabetes*

Do you know anyone who has diabetes?

How is their lifestyle different from yours?

Answers may include:

- They need to exercise
- They need to monitor their sugar
- Use injection of insulin or may take pills to reduce sugar

Review Questions:

Divide the class into 2 teams. Each team chooses a captain who will be the spokesperson. The team determines the correct answer to tell the spokesperson. The team raises their hand to answer. If the answer is correct, the team gets 2 points.

1. What are living donations?
2. What organs can be donated while a person is still alive?
3. What does Regeneration mean?
4. Name a Regeneration organ we discussed.
5. What does non-regeneration mean?
6. Name a non-regeneration organ.
7. What conditions could cause a person to need blood?
8. What disease could cause a person to need a kidney?
9. How many kidneys does a person have?
10. How old do you have to be to be a blood donor?
11. How much blood does your body need?
12. Why might a person need a blood transfusion?

[Second Chance at Life Memory Game/Donate Life SC](#)