

The student's name was blurred to ensure privacy.

School: \_\_\_\_\_ Grade: 5<sup>th</sup> Total Number of Students: 27

Subject: science

### Pre Assessment Survey

#### Content

1. What is a pulley? What is the purpose of using a pulley?

✗ 1. Incorrect response:  
The student did not give any answer.

2. Draw the way a rope or string should go through the pulleys drawn below.



✗ 2. Incorrect response:  
The student did not draw any kind of clear "loop" or continuing string from one pulley to the next. It seems as if the student simply directly connected the pulleys.

3. What happens to the string when pulleys are added to them?

✗ 3. Incorrect response:  
The student did not give any answer.

#### Evaluation

1. What gets you excited about science?

working on experiments to prove my data right or wrong.

2. If you were given the chance to create this lesson which method would you use:

- a. Lecture
- b. Textbook reading
- c. Movie
- ☒ d. Hands- on activity
- e. Researching on the internet

School: \_\_\_\_\_ Grade: \_\_\_\_\_ Total Number of Students: \_\_\_\_\_

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3. Do you think Robotics can be helpful when used to collect data in science experiments?

- a. Yes
- b. No
- ☒ c. Unsure



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### Post Assessment Survey

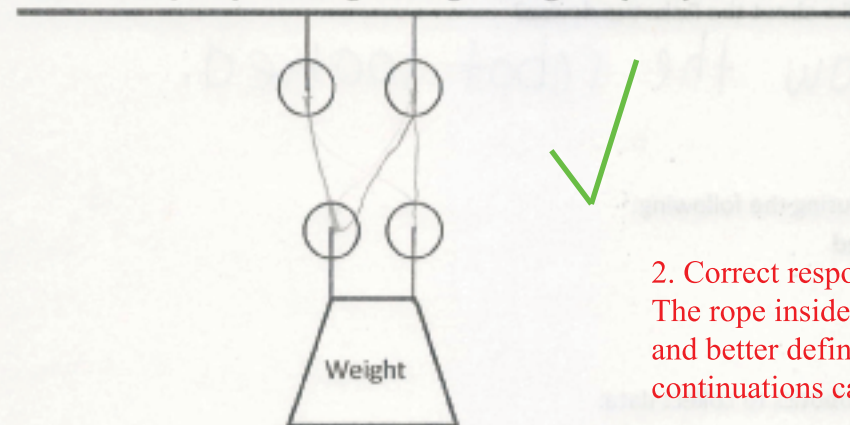
#### Content

1. What is a pulley? What is the purpose of using a pulley?

✓ A pulley is a simple machine used to move heavy objects.

1. Correct response:  
The student correctly describes a pulley and its purpose.

2. Draw the way a rope or string should go through the pulleys drawn below.



2. Correct response:  
The rope inside the pulley system is clear and better defined than before. Loops and continuations can be seen from pulley to pulley.

3. What happens to the string when pulleys are added to them?

✓ The string becomes looser.

3. Correct response:  
The student correctly mentions that the attached string becomes "looser" or decreases in tension as more pulleys are added to the system.

#### Evaluation

1. What gets you excited about science?

I get excited when we do hands on learning.

2. If you were given the chance to create this lesson which method would you use:

- a. Lecture
- b. Textbook reading
- c. Movie
- ☒ d. Hands- on activity
- e. Researching on the internet

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Subject: \_\_\_\_\_

3. Do you think Robotics can be helpful when used to collect data in science experiments?

- ☒ a. Yes
- b. No
- c. Unsure

4. What did you like / dislike about the lesson?

I like how we got to control the robot.

5. What did you like /dislike about the Robotics device?

I liked how the robot looked.

6. Please rate this lesson using the following:

- a. Strongly disliked
- b. Disliked
- ☒ c. Liked
- d. Strongly liked

7. Do you think the use Robotics to collect data:

- ☒ a. Made the lesson easier
- b. Made the lesson harder
- c. Made no difference in the lesson