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# How can machines affect our lives? (6)

Unit U Lesson 1 What are simple machines?

**1.** Label the simple machines with words from the box.



2. Write the name of the simple machines in Activity 1 to answer the questions.

Which machine is used to...

- 1 lift heavy loads by changing the direction of the force?
- 2 split or separate?
- **3** magnify the force applied?
- 4 raise or lower heavy objects?
- 3. Circle the correct word to complete the sentence.
  - 1 A/An \_\_\_\_\_\_ is a flat surface that connects a lower level to a higher level.
    - a lever b wedge c inclined plane
  - 2 Which of the following is NOT an example of an inclined plane?
    - a seesaw b wheelchair ramp c playground slide
  - 3 What type of simple machine is an inclined plane wrapped around a pole?
    - a wheel and axle b screw c pulley
  - 4 Flagpoles and window blinds use which type of simple machine?
    - a wheel and axle **b** pulley **c** inclined plane



4. Over 3,000 years ago, the Egyptians used inclined planes to build pyramids. Explain how inclined planes and the wheel and axle helped them carry the heavy stones up the pyramids.

5. What is work? Circle the correct words to complete the definition.

Work is the 1 distance / force that acts on an object to move it across a 2 distance / force. If a force is applied but the object doesn't move, no 3 work / force is done.

# 6. Look at the pictures below and answer the questions.

- 1 Which inclined plane requires more force? Why?
- 2 Which inclined plane covers more distance? Why?
- 3 Which inclined plane would you rather use? Why?

