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1. Harris has a mixture of oil and water. The oil has all risen to the top, leaving the water on the bottom.



If Harris wants to test the idea that heating the oil and water will cause them to mix, which lab tool should he use?

- A. a graduated cylinder
  - B. a spectroscope
  - C. a hotplate
  - D. an test tube
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2. A video camera would be most beneficial to someone who investigates

- A. the wavelengths of light produced by chemical reactions.
  - B. the aerodynamics of hummingbird wings.
  - C. the colors produced by different atmospheric conditions.
  - D. how insects use sound to communicate.
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3. Select the correct sequence of steps for lighting a Bunsen burner.

- A. Apply the spark above the barrel of the Bunsen burner.
- B. Open the gas adjustment at the base of the Bunsen burner.
- C. Connect the burner hose to the gas outlet.
- D. Open the gas valve on the gas outlet.

- A. C, A, D, B
  - B. C, D, B, A
  - C. D, C, A, B
  - D. C, D, A, B
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4. What is the most important laboratory procedure to follow before entering the lab area?

- A. Come prepared for lab with a pencil, paper, and a calculator, if necessary.  
Know the location of any stock solutions or general supplies that will be needed for the
  - B. lab.
  - C. Read the directions thoroughly and make sure you are familiar with safety issues.
  - D. Make sure you know where your lab station is located and with whom you are working.
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5. Splash goggles should be worn when

- A. dissecting preserved animal or plant specimens.
  - B. observing the behavior of ant colonies.
  - C. working with potentially harmful chemicals or heating liquids.
  - D. testing the effects of forces on the motion of objects.
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6. In which of the following situations should safety gloves be used?

- A. when handling corrosive chemicals
- B. when handling rough or sharp objects
- C. when immersing all or part of a hand in a chemical

D. all of these

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7. Rebecca has samples of different types of metal, and she wants to find the density of each. First, she measures the volume of each sample. Now she needs to measure the samples' masses.

Which of the following tools should Rebecca use to measure the mass of each sample?

- A. measuring tape
  - B. balance
  - C. graduated cylinder
  - D. calipers
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8. Tara heated a beaker on a hot plate. Then, she set the solution on the countertop to cool. Her lab partner, Molly, did not realize that the beaker was hot and touched it with her bare fingers.

What should Molly do to treat her burn?

- A. wave her fingers quickly through the air
  - B. rub butter, oil, or lotion on her fingers
  - C. put her fingers in her mouth
  - D. hold her fingers under cold running water
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9. When heating chemicals in a test tube, it is most appropriate to

- A. cap the opening of the test tube to prevent spilling the contents.
  - B. point the opening of the test tube away from oneself and others.
  - C. point the opening of the test tube directly upward.
  - D. cover the bottom of the test tube to prevent overheating.
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10. Which of the following could be used to measure the weights of samples in a scientific investigation?

- A. a beaker
- B. a graduated cylinder

- C. a spring scale
  - D. a meter stick
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