

Lecture 5

Lab equipment

3

Lab Equipment



thermometer



desiccator



hot plate



tongs



balance



dropper

Our products:

Hot Plate:

Our **hot plate's burner** is 13.5 centimeters in diameter. Its temperature ranges from ambient to 350°C. It also comes with an electric **thermometer**.

Desiccator:

Our **desiccator** remains sealed at most temperatures. Under certain temperatures, it can hold a full vacuum.

Balance:

Our electronic **balance** can display weights in multiple different units. It also features USB connectivity.

Stirring Rod & Dropper Set:

The basic set includes four **stirring rods** and four **droppers**. Both items are made from treated glass. It also comes with a stainless steel **spatula**.

Tongs and Forceps Set:

The basic set features three stainless steel **tongs** of various sizes and three pairs of curved **forceps** for smaller objects.

1 What is a hot plate and what is it used for?

2 How are tongs and forceps different?



1 What is a hot plate and what is it used for?

A hot plate is a device that can be placed on a table or counter. It has a single burner, which can be used to heat up whatever is on it. In a lab, scientists would use it to heat substances to various temperatures, so they can study the effects of heat.

2 How are tongs and forceps different?

Tongs and forceps differ primarily in size and function. Though they both hold things the same way, they have different uses. Forceps are generally used to hold items that are too small for hands. Forceps, however, are simply meant to grasp items a person's hand cannot for some reason. Additionally, forceps are generally much smaller than tongs.



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The basic set features three stainless steel **tongs** of various sizes and three pairs of curved **forceps** for smaller objects.

The company's rod and set comes with a stainless steel spatula.

Task 1



Our products:

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The basic set features three stainless steel **tongs** of various sizes and three pairs of curved **forceps** for smaller objects.

- 1 The desiccator comes with an electric thermometer.
- 2 The balance can display multiple units for measuring weight.
- 3 The tongs and forceps set includes a spatula.

True

False

True

False

True

False

Task1 the answers



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1 The desiccator comes with an electric thermometer.

True

False ✓

2 The balance can display multiple units for measuring weight.

True ✓

False

3 The tongs and forceps set includes a spatula.

True

False ✓

Task 3

Vocabulary

3 Fill in the blanks with the correct words or phrases from the word bank.

word BANK

hot plate

tongs

stirring rod

desiccator

thermometer

dropper

- 1 The man used the to drip the acid onto the substance.
- 2 The acids are caustic, so use a to mix them together.
- 3 The substance reacts to moisture, so it should be stored in a .
- 4 The mixture will overheat if it is left on the for too long.
- 5 The assistant measures temperature with a .
- 6 Using , people can grasp things they could not with their hands.

Task 2 the
answers

Vocabulary

3 Fill in the blanks with the correct words or phrases from the word bank.

Word BANK

- 1 The man used the ✓ to drip the acid onto the substance.
- 2 The acids are caustic, so use a ✓ to mix them together.
- 3 The substance reacts to moisture, so it should be stored in a ✓.
- 4 The mixture will overheat if it is left on the ✓ for too long.
- 5 The assistant measures temperature with a ✓.
- 6 Using ✓, people can grasp things they could not with their hands.

Task 4

Vocabulary

4 Read the sentence pairs. Choose which word best fits each blank.

forceps burner

- 1 A) The scientist used the to grasp the tiny fiber.
B) The assistant heated the solution on the .

spatula balance

- 2 A) Each item should be weighed on the .
- B) The chemist used the to spread the mixture.

Task4 the
answers

Vocabulary

4 Read the sentence pairs. Choose which word best fits each blank.

1 A) The scientist used the ✓ to grasp the tiny fiber.

B) The assistant heated the solution on the ✓.

2 A) Each item should be weighed on the ✓.

B) The chemist used the ✓ to spread the mixture.



Task 5 listen and answer

1 What is the conversation mainly about?

- A** where to purchase lab equipment
- B** how to handle lab equipment
- C** lab equipment that the man wants
- D** where some lab equipment is located

2 When will the lab need a desiccator?

- A** immediately
- B** by Friday
- C** in a week
- D** after the weekend

Task 5 the answers

1 What is the conversation mainly about?

- A where to purchase lab equipment
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2 When will the lab need a desiccator?

- A immediately
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- D after the weekend

Task 6 choose the correct answer from task 5

What do we need?

That means you'll need the hot plate by Tuesday.

What else do we need?

How soon do we need these items?

A: Could you purchase some items for the lab?

B: Sure.

A: For one, we need some new stirring rods. Our old ones keep going missing.

B: Hmm.

A: We also really need a new hot plate.

B:

A: We'll need to heat stuff for an experiment on Wednesday.

B:

Task 6 the answers

A: Could you purchase some items for the lab?

B: Sure. ✓

A: For one, we need some new stirring rods. Our old ones keep going missing.

B: Hmm. ✓

A: We also really need a new hot plate.

B: ✓

A: We'll need to heat stuff for an experiment on Wednesday.

B: ✓