

Name: _____ Date: _____

What is a Chemical Engineer?

Draw and label a picture of a chemical engineer at work.



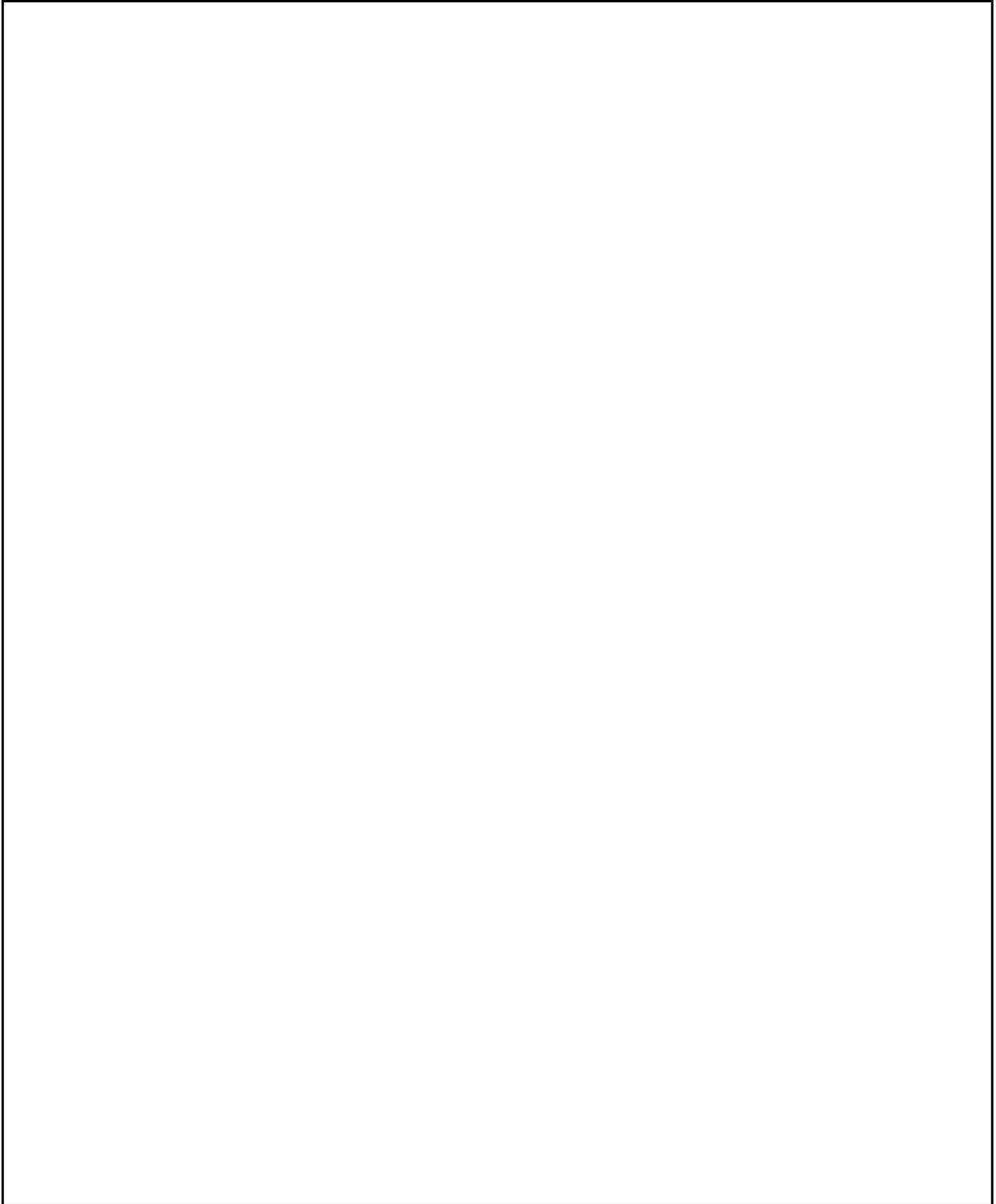
Explain your drawing of a chemical engineer: _____

Name: _____ Date: _____

What is a Chemical Engineer?

B

Draw a picture of a chemical engineer at work. Label your picture.



Name: _____ Date: _____

A

B

What is a Chemical Engineer?

Which of the following would a chemical engineer do for his or her job?
Mark **ALL** that apply:

- fix car engines
- think about processes
- create new bubble gum
- cook dinner for people in restaurants
- figure out better ways to make paint
- think about how airplane engines work
- design new machines for mixing chemicals
- design new flavors for foods
- figure out what candy colors people like best
- think about mixing solids and liquids together

Name: _____ Date: _____

Directions: Decide whether each statement below is TRUE (😊 T) or FALSE (☹ F) and circle your answer.

A process is a technology.	😊 T	☹ F
A process is a set of steps done in order.	😊 T	☹ F
Engineering is a process.	😊 T	☹ F
Making cookies is a process.	😊 T	☹ F
A dishwashing machine is a process.	😊 T	☹ F
Solving a math problem is a process.	😊 T	☹ F
A computer is a process.	😊 T	☹ F
Tying your shoes is a process.	😊 T	☹ F

What is YOUR definition of the word “process”?

Name: _____ Date: _____

B

Directions: Decide whether each statement below is TRUE (😊 T) or FALSE (😞 F) and circle your answer.

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Name: _____ Date: _____

1. A girl made some play dough, but it was too sticky. How could she fix it?

2. A boy made play dough out of salt, water, and flour. First he tried mixing all the ingredients at the same time, but his play dough was too grainy. Then he tried mixing the water and the salt together first, and the play dough was much smoother. Why?

3. A girl put some sugar into a bowl of water and stirred. The sugar dissolved. She put more sugar in and stirred. This time the sugar did not dissolve. What would work BEST to get more sugar to dissolve?

- A. heat up the water
- B. stir faster
- C. wait for an hour and then stir more
- D. it is not possible to get more sugar to dissolve in the water

Name: _____ Date: _____

A

B

Directions: Decide whether each statement below is TRUE (😊 T) or FALSE (☹ F) and circle your answer.

Flour dissolves in water.	😊 T	☹ F
Mixing salt into play dough makes it more sticky.	😊 T	☹ F
If the play dough you make is too grainy, you may not have dissolved the salt before mixing it with flour.	😊 T	☹ F
If your play dough is too sticky, you can fix it if you add water.	😊 T	☹ F
If your play dough is too grainy, you can fix it if you add salt.	😊 T	☹ F
Salt dissolves better in warm water than in cold water.	😊 T	☹ F
If your play dough is too sticky, you can fix it if you add flour.	😊 T	☹ F
If you make play dough and it is too grainy, you maybe have done the steps in the wrong order.	😊 T	☹ F
Mixing flour into play dough makes it more sticky.	😊 T	☹ F
If your play dough is too grainy, you can fix it if you add flour.	😊 T	☹ F
If your play dough is too sticky, you can fix it if you add salt.	😊 T	☹ F
Salt dissolves best in water when it is mixed with flour first.	😊 T	☹ F

Name: _____ Date: _____

Directions: Design a process for making your favorite sandwich. Include ALL of the steps. You can sketch your ideas on the back of this page.

1. Draw your plan in the box below. Label the parts.



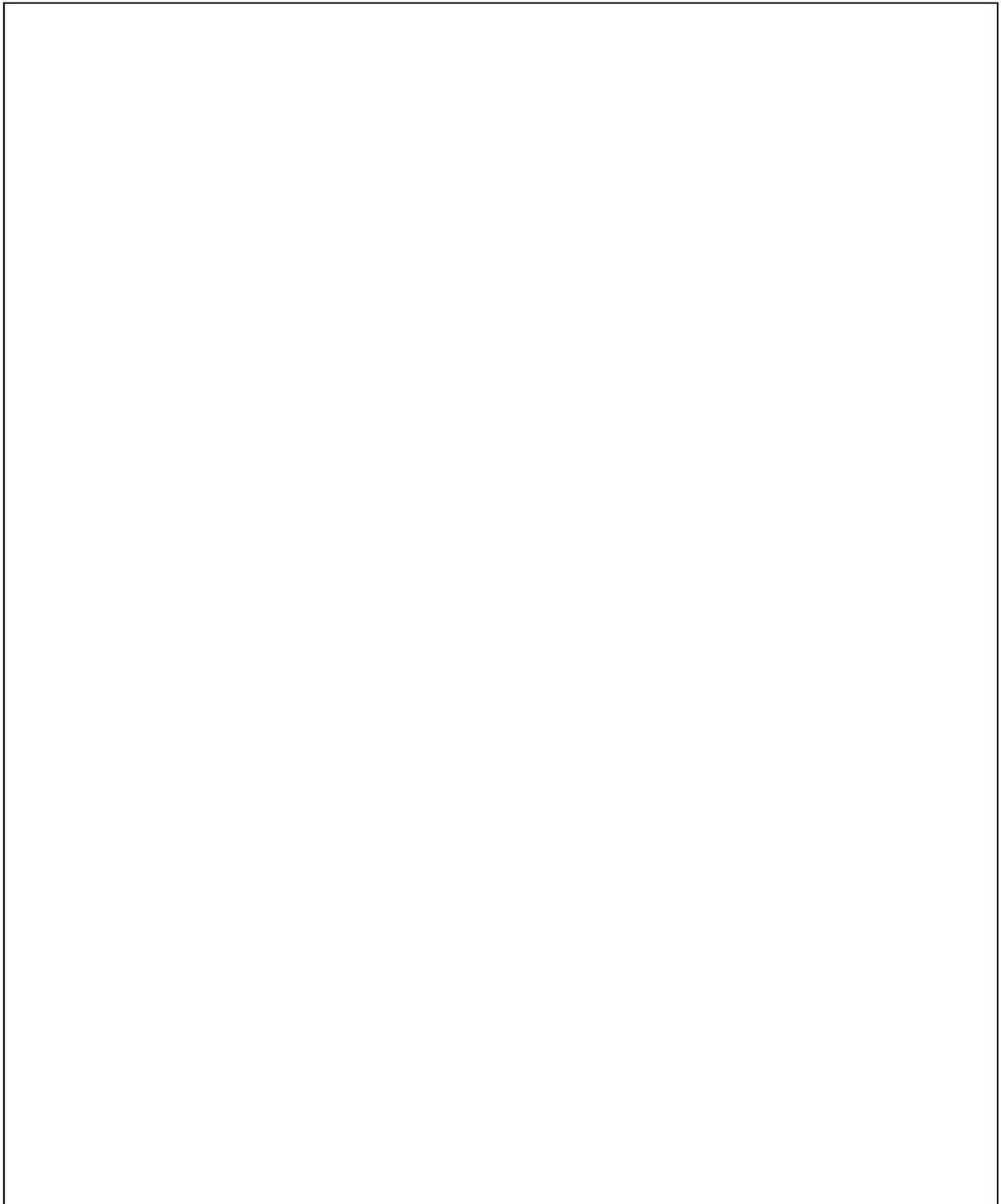
2. Explain your process: _____

Name: _____ Date: _____

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Sketch your plan in the box below. Label the parts.



Name: _____ Date: _____

What is a Chemical Engineer?

Draw and label a picture of a chemical engineer at work.

A good picture would show someone designing or working with a process, especially one involving chemistry. They may be shown mixing things together or asking other people what they like best (product research).

Examples include: someone figuring out a better way to make paint, designing new flavors or food, etc.

Explain your drawing of a chemical engineer:

Answers will vary, but may include: Someone who combines his or her knowledge of math and science, especially chemistry, to design technologies and solve problems.

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A dishwashing machine is a process.	<input type="radio"/> T	<input checked="" type="radio"/> F
Solving a math problem is a process.	<input checked="" type="radio"/> T	<input type="radio"/> F
A computer is a process.	<input type="radio"/> T	<input checked="" type="radio"/> F
Tying your shoes is a process.	<input checked="" type="radio"/> T	<input type="radio"/> F

What is YOUR definition of the word “process”?

A process is a series of actions or steps leading to a result or goal.

Name: _____ Date: _____

Answer Key

Directions: Decide whether each statement below is TRUE (😊 T) or FALSE (😞 F) and circle your answer.

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Name: _____ Date: _____

1. A girl made some play dough, but it was too sticky. How could she fix it?

She could add more flour.

2. A boy made play dough out of salt, water, and flour. First he tried mixing all the ingredients at the same time, but his play dough was too grainy. Then he tried mixing the water and the salt together first, and the play dough was much smoother. Why?

Because salt dissolves in water, and if you dissolve the salt first, you won't feel the salt in the play dough later.

3. A girl put some sugar into a bowl of water and stirred. The sugar dissolved. She put more sugar in and stirred. This time the sugar did not dissolve. What would work BEST to get more sugar to dissolve?

- A. heat up the water
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Name: _____ Date: _____

Directions: Design a process for making your favorite sandwich. Include ALL of the steps. You can sketch your ideas on the back of this page.

1. Sketch your plan in the box below. Label the parts.

Note: You may want to give you students extra paper or allow them to draw their plan on a larger sheet of paper.

2. Explain your process:

Example: First, spread peanut butter on one piece of bread. Second, spread strawberry jelly on a second piece of bread. Third, stick the two pieces of bread together so that the peanut butter and jelly are touching.

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