

Name: _____

A list of opposing words appears below. Rate how well these words describe your feelings about **chemistry**. Think carefully and **try not to include** your feelings toward chemistry teachers or chemistry courses. For each line, choose a position between the two words that describes **exactly how you feel**. Mark that number here or on the standard answer sheet. The middle position is if you are undecided or have no feelings related to the terms on that line.

CHEMISTRY IS

- | | | |
|-------------------------|---------------------------|------------------|
| 1. <u>easy</u> | 1 2 3 4 5 6 7 | hard |
| | middle | |
| 2. <u>worthless</u> | 1 2 3 4 5 6 7 | beneficial |
| 3. <u>exciting</u> | 1 2 3 4 5 6 7 | boring |
| 4. <u>complicated</u> | 1 2 3 4 5 6 7 | simple |
| 5. <u>confusing</u> | 1 2 3 4 5 6 7 | clear |
| 6. <u>good</u> | 1 2 3 4 5 6 7 | bad |
| | middle | |
| 7. <u>satisfying</u> | 1 2 3 4 5 6 7 | frustrating |
| 8. <u>scary</u> | 1 2 3 4 5 6 7 | fun |
| 9. <u>comprehensive</u> | 1 2 3 4 5 6 7 | incomprehensible |
| 10. <u>challenging</u> | 1 2 3 4 5 6 7 | not challenging |
| 11. <u>pleasant</u> | 1 2 3 4 5 6 7 | unpleasant |
| | middle | |
| 12. <u>interesting</u> | 1 2 3 4 5 6 7 | dull |
| 13. <u>disgusting</u> | 1 2 3 4 5 6 7 | attractive |
| 14. <u>comfortable</u> | 1 2 3 4 5 6 7 | uncomfortable |
| 15. <u>worthwhile</u> | 1 2 3 4 5 6 7 | useless |
| 16. <u>work</u> | 1 2 3 4 5 6 7 | play |
| | middle | |
| 17. <u>chaotic</u> | 1 2 3 4 5 6 7 | organized |
| 18. <u>safe</u> | 1 2 3 4 5 6 7 | dangerous |
| 19. <u>tense</u> | 1 2 3 4 5 6 7 | relaxed |
| 20. <u>insecure</u> | 1 2 3 4 5 6 7 | secure |

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Please respond to the following items by choosing the number (1 - 7) that most closely reflects your opinion. Do NOT circle the words below the items, only the numbers.

When answering these items focus on general chemistry specifically.

I interact with my instructor

~~Infrequently~~ 1 2 3 4 5 6 7 Frequently

In class, I ask questions

~~Infrequently~~ 1 2 3 4 5 6 7 Frequently

In class, I interact with my peers

~~Infrequently~~ 1 2 3 4 5 6 7 Frequently

I am motivated to learn chemistry

~~Infrequently~~ 1 2 3 4 5 6 7 Frequently

I have trouble focusing in my chemistry class

~~Infrequently~~ 1 2 3 4 5 6 7 Frequently

I feel the different topics taught in chemistry are connected to each other

~~Infrequently~~ 1 2 3 4 5 6 7 Frequently

I am likely to attend class regularly

~~Infrequently~~ 1 2 3 4 5 6 7 Frequently

The amount of work in this course will be challenging

~~Disagree~~ 1 2 3 4 5 6 7 Agree

The course content will be difficult for me

~~Disagree~~ 1 2 3 4 5 6 7 Agree

The structure of the class supports the learning of chemistry

~~Disagree~~ 1 2 3 4 5 6 7 Agree

I will enjoy the course overall

~~Disagree~~ 1 2 3 4 5 6 7 Agree

For this item, circle the number two

~~Disagree~~ 1 2 3 4 5 6 7 Agree

The concepts from the lecture portion of the course connect to the lab portion

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	---	---	-------

I understand chemistry better because of the lab activities

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	---	---	-------

I will enjoy the laboratory activities

Disagree	1	2	3	4	5	6	7	Agree
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I enjoy thinking about chemistry outside of my course work

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	---	---	-------

I feel well-prepared for this course

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	---	---	-------

I can handle dealing with academic setbacks

Disagree	1	2	3	4	5	6	7	Agree
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I am generally curious about chemistry

Disagree	1	2	3	4	5	6	7	Agree
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I feel confident in my ability to complete my chemistry course with a passing grade

Disagree	1	2	3	4	5	6	7	Agree
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CHEMISTRY IS

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| 1. easy | <u>6</u> 2 3 4 5 6 7 | hard |
| | middle | |
| 2. worthless | <u>1</u> 2 3 4 5 6 7 | beneficial |
| 3. exciting | <u>0</u> 2 3 4 5 6 7 | boring |
| 4. complicated | <u>0</u> 2 3 4 5 6 7 | simple |
| 5. confusing | <u>1</u> 2 3 4 5 6 7 | clear |
| 6. good | <u>6</u> 2 3 4 5 6 7 | bad |
| | middle | |
| 7. satisfying | <u>6</u> 2 3 4 5 6 7 | frustrating |
| 8. scary | <u>0</u> 2 3 4 5 6 7 | fun |
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| 15. worthwhile | <u>2</u> 2 3 4 5 6 7 | useless |
| 16. work | <u>1</u> 2 3 4 5 6 7 | play |
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I am motivated to learn chemistry

Infrequently 1 2 3 4 5 6 7 Frequently

I have trouble focusing in my chemistry class

Infrequently 1 2 3 4 5 6 7 Frequently

I feel the different topics taught in chemistry are connected to each other

Infrequently 1 2 3 4 5 6 7 Frequently

I am likely to attend class regularly

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The amount of work in this course will be challenging

Disagree 1 2 3 4 5 6 7 Agree

The course content will be difficult for me

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The structure of the class supports the learning of chemistry

Disagree 1 2 3 4 5 6 7 Agree

I will enjoy the course overall

Disagree 1 2 3 4 5 6 7 Agree

For this item, circle the number two

Disagree 2 3 4 5 6 7 Agree

The concepts from the lecture portion of the course connect to the lab portion

Disagree 1 2 3 4 5 6 7 Agree

I understand chemistry better because of the lab activities

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Disagree 1 2 3 4 5 6 7 Agree

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The structure of the class supports the learning of chemistry

Disagree 1 2 3 4 5 6 7 Agree

I will enjoy the course overall

Disagree 1 2 3 4 5 6 7 Agree

For this item, circle the number two

Disagree 1 2 3 4 5 6 7 Agree

The concepts from the lecture portion of the course connect to the lab portion

Disagree 1 2 3 4 5 6 7 Agree

I understand chemistry better because of the lab activities

Disagree 1 2 3 4 5 6 7 Agree

I will enjoy the laboratory activities

Disagree 1 2 3 4 5 6 7 Agree

I enjoy thinking about chemistry outside of my course work

Disagree 1 2 3 4 5 6 7 Agree

I feel well-prepared for this course

Disagree 1 2 3 4 5 6 7 Agree

I can handle dealing with academic setbacks

Disagree 1 2 3 4 5 6 7 Agree

I am generally curious about chemistry

Disagree 1 2 3 4 5 6 7 Agree

I feel confident in my ability to complete my chemistry course with a passing grade

Disagree 1 2 3 4 5 6 7 Agree

Name: _____

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CHEMISTRY IS

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| 1. easy | 1 2 3 4 5 6 7 | hard |
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| 6. good | 1 2 3 4 5 6 7 | bad |
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| 7. satisfying | 1 2 3 4 5 6 7 | frustrating |
| 8. scary | 1 2 3 4 5 6 7 | fun |
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I interact with my instructor

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Infrequently 1 2 3 4 5 6 7 Frequently

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Infrequently 1 2 3 4 5 6 7 Frequently

I have trouble focusing in my chemistry class

Infrequently 1 2 3 4 5 6 7 Frequently

I feel the different topics taught in chemistry are connected to each other

Infrequently 1 2 3 4 5 6 7 Frequently

I am likely to attend class regularly

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Disagree 1 2 3 4 5 6 7 Agree

The course content will be difficult for me

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Disagree 1 2 3 4 5 6 7 Agree

I will enjoy the course overall

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The concepts from the lecture portion of the course connect to the lab portion

Disagree	1	2	3	4	5	6	7	Agree
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I understand chemistry better because of the lab activities

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| | middle | |
| 2. worthless | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | beneficial |
| 3. exciting | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | boring |
| 4. complicated | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | simple |
| 5. confusing | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | clear |
| 6. good | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | bad |
| | middle | |
| 7. satisfying | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | frustrating |
| 8. scary | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | fun |
| 9. comprehensible | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | incomprehensible |
| 10. challenging | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | not challenging |
| 11. pleasant | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | unpleasant |
| | middle | |
| 12. interesting | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | dull |
| 13. disgusting | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | attractive |
| 14. comfortable | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | uncomfortable |
| 15. worthwhile | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | useless |
| 16. work | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | play |
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| 17. chaotic | <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> | organized |
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Infrequently 1 1 3 4 5 6 7 Frequently

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Disagree 1 2 3 4 5 6 7 Agree

I will enjoy the course overall

Disagree 1 1 3 4 5 6 7 Agree

For this item, circle the number two

Disagree 1 1 3 4 5 6 7 Agree

The concepts from the lecture portion of the course connect to the lab portion

Disagree 1 **7** 3 4 5 6 7 Agree

I understand chemistry better because of the lab activities

Disagree 1 **2** 3 4 5 6 7 Agree

I will enjoy the laboratory activities

Disagree 1 **7** 3 4 5 6 7 Agree

I enjoy thinking about chemistry outside of my course work

Disagree 1 **7** 3 4 5 6 7 Agree

I feel well-prepared for this course

Disagree 1 **7** 3 4 5 6 7 Agree

I can handle dealing with academic setbacks

Disagree 1 **2** 3 4 5 6 7 Agree

I am generally curious about chemistry

Disagree 1 **7** 3 4 5 6 7 Agree

I feel confident in my ability to complete my chemistry course with a passing grade

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CHEMISTRY IS

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| 12. interesting | 1 2 7 4 5 6 7 | dull |
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I am likely to attend class regularly

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The amount of work in this course will be challenging

Disagree 1 2 3 4 5 6 7 Agree

The course content will be difficult for me

Disagree 1 2 3 4 5 6 7 Agree

The structure of the class supports the learning of chemistry

Disagree 1 2 3 4 5 6 7 Agree

I will enjoy the course overall

Disagree 1 2 3 4 5 6 7 Agree

For this item, circle the number two

Disagree 1 2 1 4 5 6 7 Agree

The concepts from the lecture portion of the course connect to the lab portion

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	---	---	-------

I understand chemistry better because of the lab activities

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	---	---	-------

I will enjoy the laboratory activities

Disagree	1	2	3	4	5	6	7	Agree
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I enjoy thinking about chemistry outside of my course work

Disagree	1	2	3	4	5	6	7	Agree
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I feel well-prepared for this course

Disagree	1	2	3	4	5	6	7	Agree
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I can handle dealing with academic setbacks

Disagree	1	2	3	4	5	6	7	Agree
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I understand chemistry better because of the lab activities

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Disagree	1	<input checked="" type="radio"/>	3	4	5	6	7	Agree
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I enjoy thinking about chemistry outside of my course work

Disagree	<input checked="" type="radio"/>	2	3	4	5	6	7	Agree
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I feel well-prepared for this course

Disagree	1	<input checked="" type="radio"/>	3	4	5	6	7	Agree
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I feel confident in my ability to complete my chemistry course with a passing grade

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I am likely to attend class regularly

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For this item, circle the number two

Disagree 1 ~~2~~ 3 4 5 6 7 Agree

The concepts from the lecture portion of the course connect to the lab portion

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	--------------	---	---	---	---	-------

I understand chemistry better because of the lab activities

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	--------------	---	---	---	-------

I will enjoy the laboratory activities

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	--------------	---	---	-------

I enjoy thinking about chemistry outside of my course work

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	--------------	---	-------

I feel well-prepared for this course

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	---	--------------	-------

I can handle dealing with academic setbacks

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	--------------	---	-------

I am generally curious about chemistry

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	--------------	---	---	-------

I feel confident in my ability to complete my chemistry course with a passing grade

Disagree	1	2	3	4	5	6	7	Agree
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Name: _____

A list of opposing words appears below. Rate how well these words describe your feelings about **chemistry**. Think carefully and **try not to include** your feelings toward chemistry teachers or chemistry courses. For each line, choose a position between the two words that describes **exactly how you feel**. Mark that number here or on the standard answer sheet. The middle position is if you are undecided or have no feelings related to the terms on that line.

CHEMISTRY IS

- | | | |
|-------------------|---|------------------|
| 1. easy | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | hard |
| | middle | |
| 2. worthless | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | beneficial |
| 3. exciting | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | boring |
| 4. complicated | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | simple |
| 5. confusing | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | clear |
| 6. good | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | bad |
| | middle | |
| 7. satisfying | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | frustrating |
| 8. scary | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | fun |
| 9. comprehensible | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | incomprehensible |
| 10. challenging | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | not challenging |
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| 17. chaotic | <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 | organized |
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Name: _____

Please respond to the following items by choosing the number (1 - 7) that most closely reflects your opinion. Do NOT circle the words below the items, only the numbers.

When answering these items focus on general chemistry specifically.

I interact with my instructor

Infrequently ~~X~~ 2 3 4 5 6 7 Frequently

In class, I ask questions

Infrequently ~~X~~ 2 3 4 5 6 7 Frequently

In class, I interact with my peers

Infrequently ~~X~~ 2 3 4 5 6 7 Frequently

I am motivated to learn chemistry

Infrequently ~~X~~ 2 3 4 5 6 7 Frequently

I have trouble focusing in my chemistry class

Infrequently ~~X~~ 2 3 4 5 6 7 Frequently

I feel the different topics taught in chemistry are connected to each other

Infrequently ~~X~~ 2 3 4 5 6 7 Frequently

I am likely to attend class regularly

Infrequently ~~X~~ 2 3 4 5 6 7 Frequently

The amount of work in this course will be challenging

Disagree ~~X~~ 2 3 4 5 6 7 Agree

The course content will be difficult for me

Disagree ~~X~~ 2 3 4 5 6 7 Agree

The structure of the class supports the learning of chemistry

Disagree ~~X~~ 2 3 4 5 6 7 Agree

I will enjoy the course overall

Disagree ~~X~~ 2 3 4 5 6 7 Agree

For this item, circle the number two

Disagree ~~X~~ 2 3 4 5 6 7 Agree

The concepts from the lecture portion of the course connect to the lab portion

Disagree ☒ 2 3 4 5 6 7 Agree

I understand chemistry better because of the lab activities

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Disagree ☒ 2 3 4 5 6 7 Agree

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I can handle dealing with academic setbacks

Disagree ☒ 2 3 4 5 6 7 Agree

I am generally curious about chemistry

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CHEMISTRY IS

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| 7. satisfying | <u>1</u> 2 3 4 5 6 7 | frustrating |
| 8. scary | <u>1</u> 2 3 4 5 6 7 | fun |
| 9. comprehensible | <u>1</u> 2 3 4 5 6 7 | incomprehensible |
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| 11. pleasant | <u>1</u> 2 3 4 5 6 7 | unpleasant |
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I feel the different topics taught in chemistry are connected to each other

Infrequently 1 2 3 4 5 6 7 Frequently

I am likely to attend class regularly

Infrequently 1 2 3 4 5 6 7 Frequently

The amount of work in this course will be challenging

Disagree 1 2 3 4 5 6 7 Agree

The course content will be difficult for me

Disagree 1 2 3 4 5 6 7 Agree

The structure of the class supports the learning of chemistry

Disagree 1 2 3 4 5 6 7 Agree

I will enjoy the course overall

Disagree 1 2 3 4 5 6 7 Agree

For this item, circle the number two

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The concepts from the lecture portion of the course connect to the lab portion

Disagree	1	2	3	4	5	6	7	Agree
----------	---	---	---	---	---	---	---	-------

I understand chemistry better because of the lab activities

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I feel the different topics taught in chemistry are connected to each other

Infrequently 1 2 3 4 5 ⑥ 7 Frequently

I am likely to attend class regularly

Infrequently 1 2 3 4 5 6 ⑦ Frequently

The amount of work in this course will be challenging

Disagree 1 2 3 4 5 ⑥ 7 Agree

The course content will be difficult for me

Disagree 1 2 3 4 ⑤ 6 7 Agree

The structure of the class supports the learning of chemistry

Disagree 1 2 3 ④ 5 6 7 Agree

I will enjoy the course overall

Disagree 1 2 ③ 4 5 6 7 Agree

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Disagree 1 ② 3 4 5 6 7 Agree

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I enjoy thinking about chemistry outside of my course work

Disagree 1 ② 3 4 5 6 7 Agree

I feel well-prepared for this course

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I can handle dealing with academic setbacks

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Disagree	1	2	③	4	5	6	7	Agree
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