




## NEAP QUESTION SEARCH of Keyword "Mineral"



### Testing Minerals' Hardness

	 Mineral A	 Mineral B	 Mineral C
Mineral A scratches:	--	no	no
Mineral B scratches:	yes	--	yes
Mineral C scratches:	yes	no	--

1. The table above shows whether or not each mineral can scratch the other minerals. Based on the table, which mineral is the hardest? Fill in only one oval.

- A Mineral A
- B Mineral B
- C Mineral C

Explain your answer.

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### [Explanation of] Score & Description

#### Complete

Student response chooses mineral B, and explains either that B scratches both minerals A and C, or that B is not scratched by the other two minerals.

#### Partial

Student response chooses mineral B with incomplete or no explanation.

#### Unsatisfactory/Incorrect

Student response chooses mineral A or C with incorrect or no explanation, or chooses B, but then states that another mineral scratches B.

### Examples of Complete Responses

#### Complete Response One:

1. The table above shows whether or not each mineral can scratch the other minerals. Based on the table, which mineral is the hardest? Fill in only one oval.

Mineral A

Mineral B

Mineral C

Explain your answer.

I picked mineral B because it had two yes's. It can scratch mineral A and C. Mineral A can't scratch either of the other minerals. Mineral C can only scratch A. B can scratch both of the other minerals. That's why I picked mineral B.

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### Complete Response Two:

1. The table above shows whether or not each mineral can scratch the other minerals. Based on the table, which mineral is the hardest? Fill in only one oval.

Mineral A

Mineral B

Mineral C

Explain your answer.

because it scratches the other two materials

### Scorer Comments:

Both responses select mineral B and provide correct explanations based on the ability of mineral B to scratch the other two minerals.

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### Examples of Partial Responses

#### Partial Response One:

1. The table above shows whether or not each mineral can scratch the other minerals. Based on the table, which mineral is the hardest? Fill in only one oval.

Mineral A

Mineral B

Mineral C

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Explain your answer.

The other minerals have maybe a yes no  
or no no and B has 2 yeses so it  
must be the hardest.

### Partial Response Two:

1. The table above shows whether or not each mineral can scratch the other minerals. Based on the table, which mineral is the hardest? Fill in only one oval.

Mineral A

Mineral B

Mineral C

Explain your answer.

because it is a harder mineral.

### Scorer Comments:

Both responses select mineral B. The first response has an incomplete explanation that refers only to the number of "yes" and "no" entries in the table. The statement included in the second response does not provide an explanation of the response.

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### Examples of Unsatisfactory/Incorrect Student Responses

#### Partial Response One:

1. The table above shows whether or not each mineral can scratch the other minerals. Based on the table, which mineral is the hardest? Fill in only one oval.

- Mineral A
- Mineral B
- Mineral C

Explain your answer.

because the Mineral A has two yes under  
it and all the others have 1 or none.

#### Partial Response One:

1. The table above shows whether or not each mineral can scratch the other minerals. Based on the table, which mineral is the hardest? Fill in only one oval.

- Mineral A
- Mineral B
- Mineral C

Explain your answer.

It was pointy and rough.

[scorer comments missing]