

Peer Instruction



Professional Development Day
Episcopal Academy
Newtown Square, PA, 24 March 2023



Peer Instruction



@eric_mazur

Professional Development Day
Episcopal Academy
Newtown Square, PA 19388
4 March 2023





question



question



think



question



think



poll



question



think



poll



discuss





question



think



poll



discuss



repoll



question



think



poll



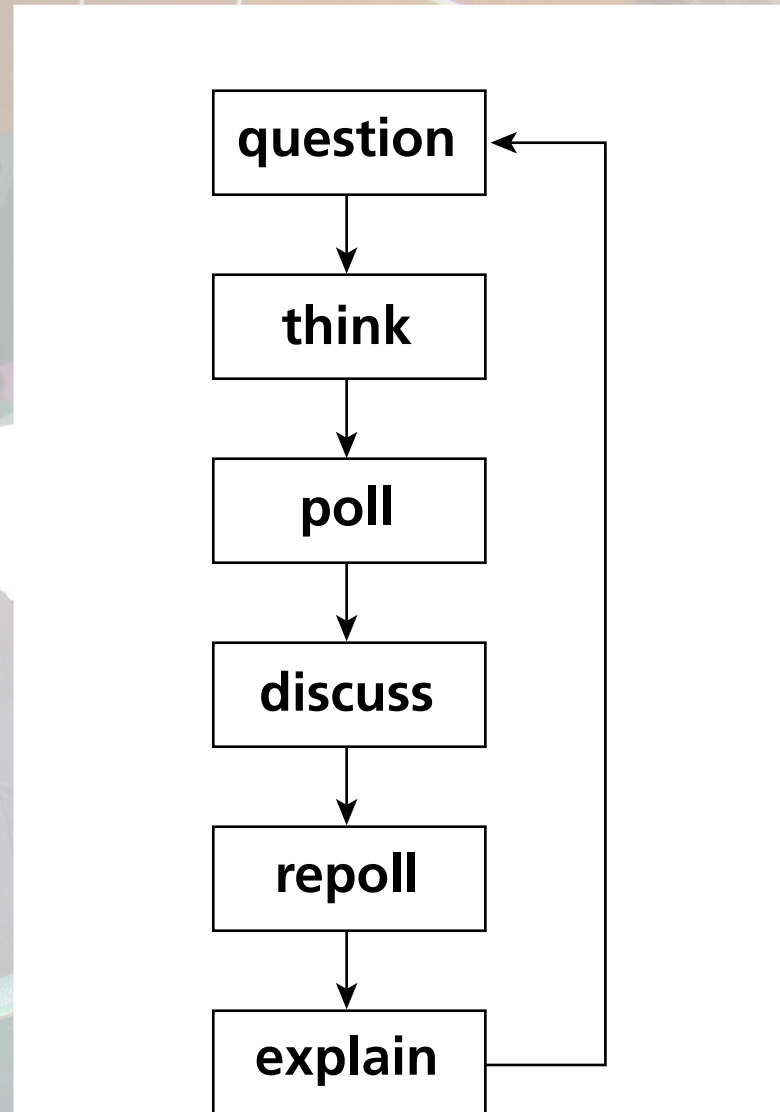
discuss

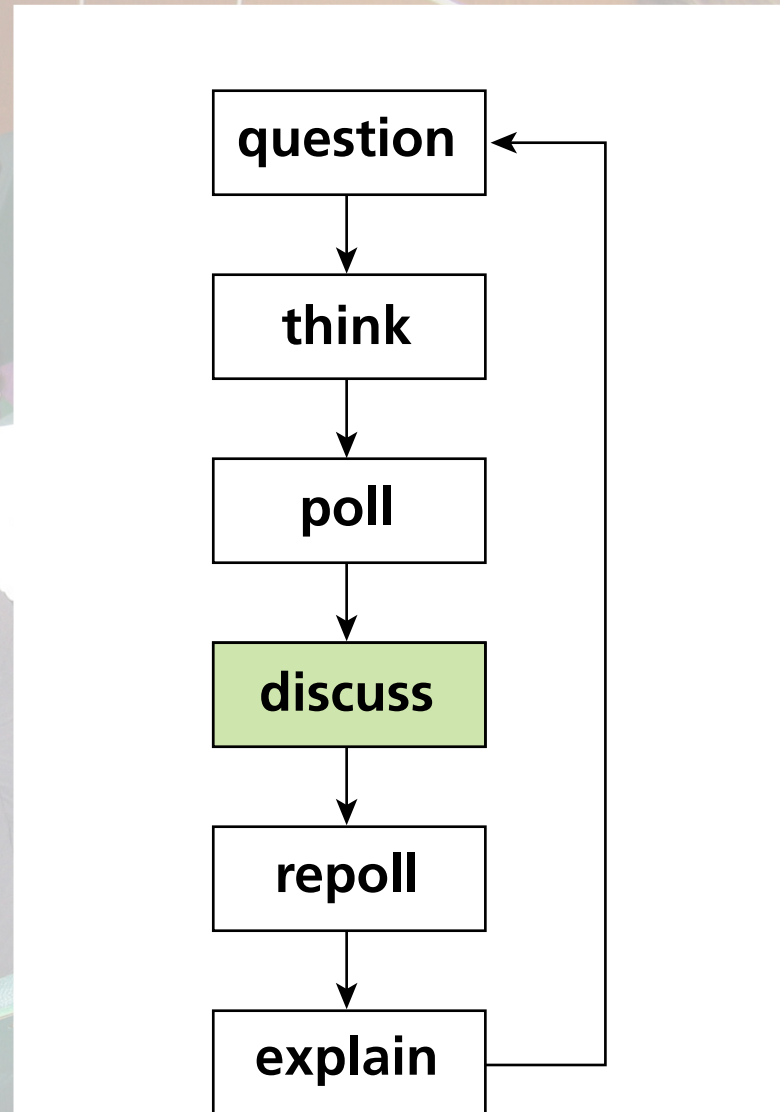


repoll



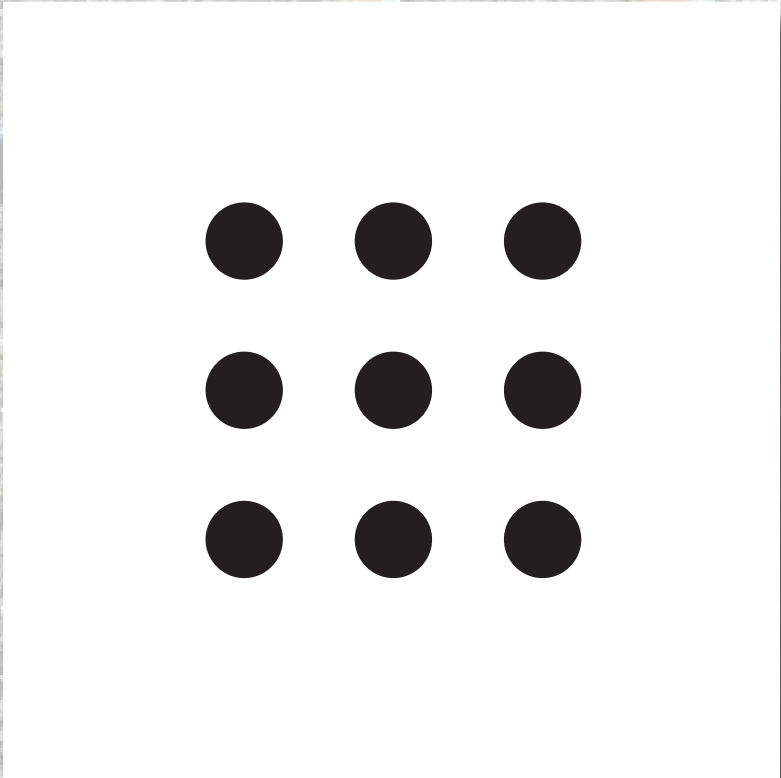
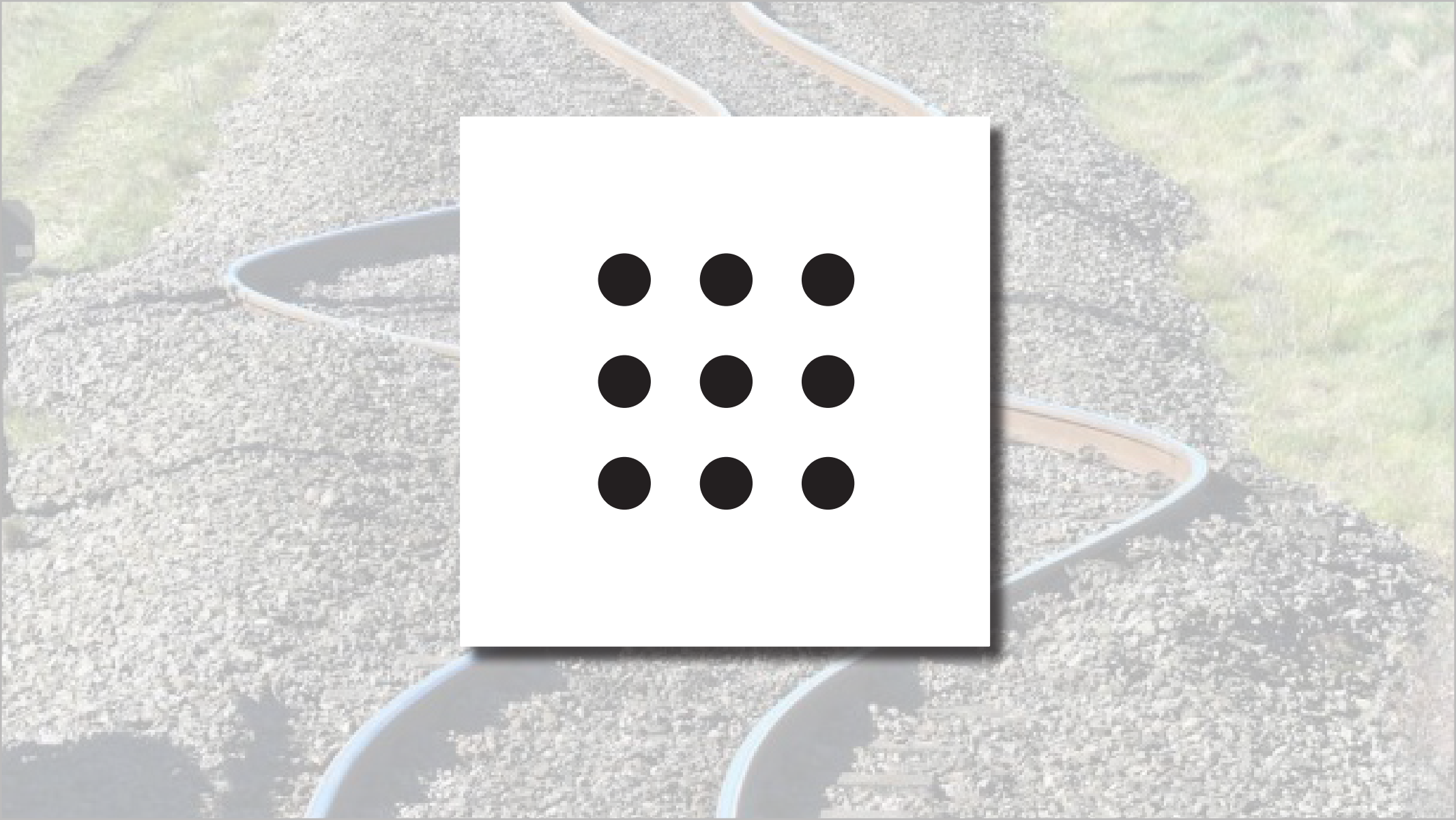
explain

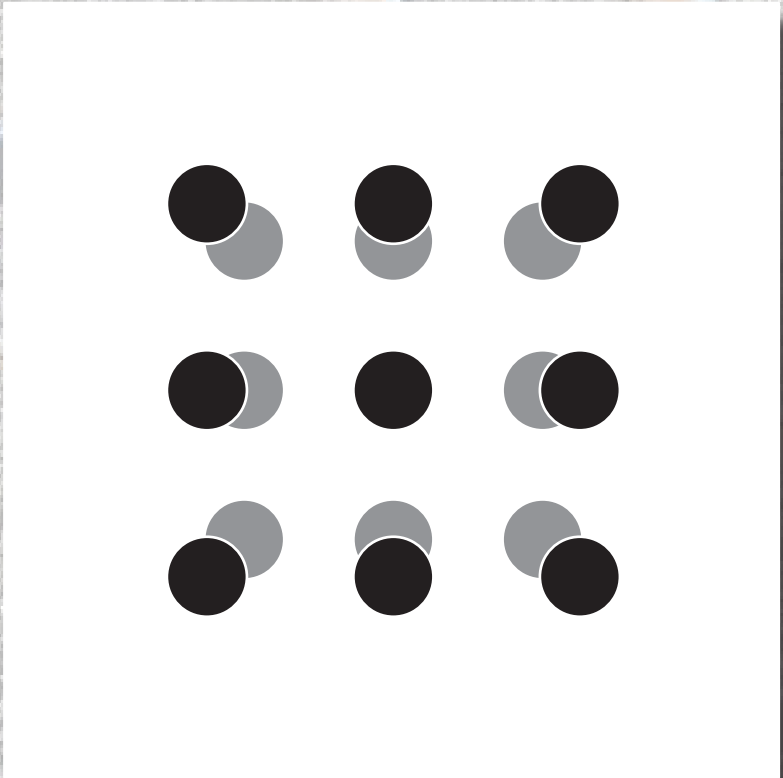






thermal expansion



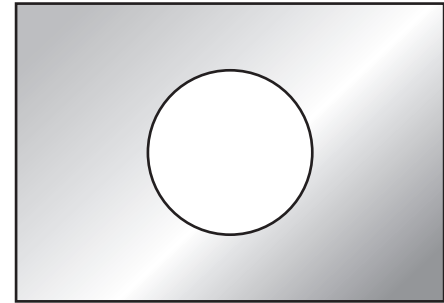


all of them!



Consider a rectangular metal plate with a circular hole in it.

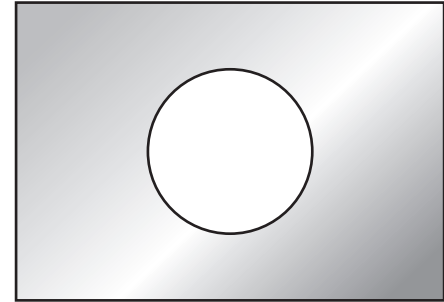
When the plate is uniformly heated, the diameter of the hole



Consider a rectangular metal plate with a circular hole in it.

When the plate is uniformly heated, the diameter of the hole

- 1. increases.**
- 2. stays the same.**
- 3. decreases.**



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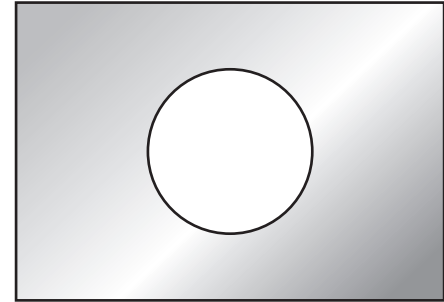


you got all fired up!

Consider a rectangular metal plate with a circular hole in it.

When the plate is uniformly heated, the diameter of the hole

- 1. increases.**
- 2. stays the same.**
- 3. decreases.**



Before I tell you the answer, let's analyze what happened.

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You...

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You...

1. made a commitment

Before I tell you the answer, let's analyze what happened.

You...

- 1. made a commitment**
- 2. externalized your answer**

Before I tell you the answer, let's analyze what happened.

You...

- 1. made a commitment**
- 2. externalized your answer**
- 3. moved from the answer/fact to reasoning**

Before I tell you the answer, let's analyze what happened.

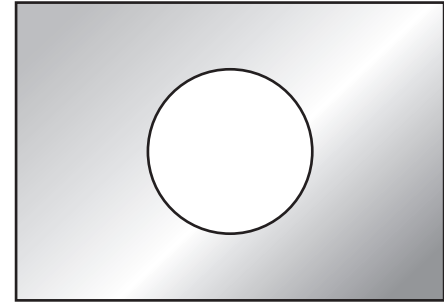
You...

- 1. made a commitment**
- 2. externalized your answer**
- 3. moved from the answer/fact to reasoning**
- 4. became emotionally invested in the learning process**

Consider a rectangular metal plate with a circular hole in it.

When the plate is uniformly heated, the diameter of the hole

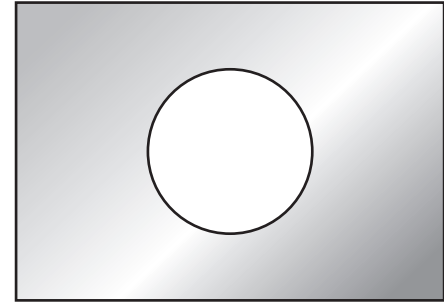
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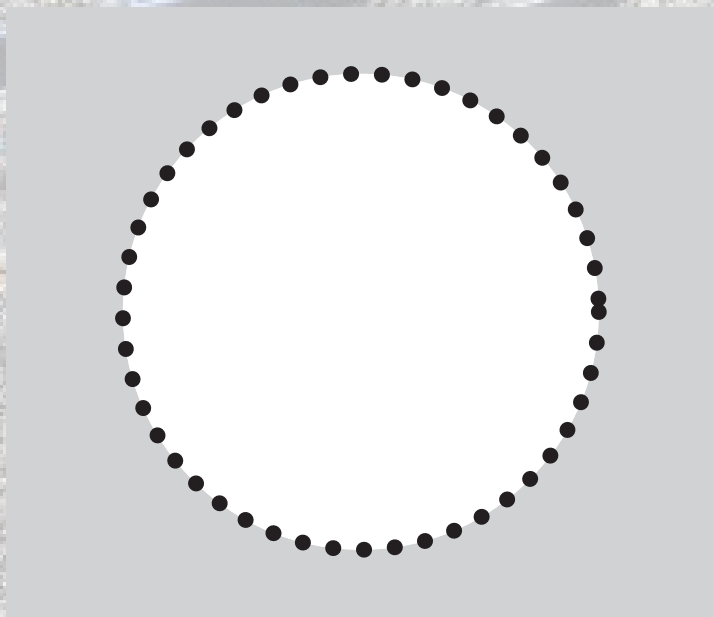
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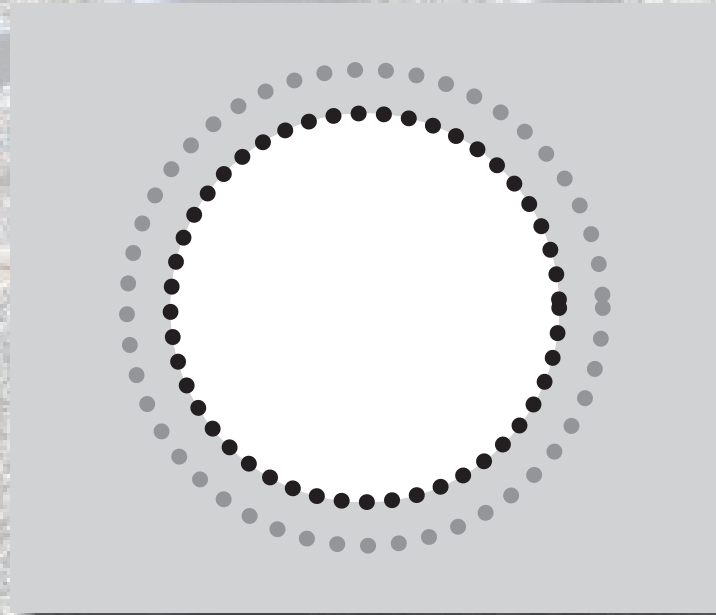
- 1. increases. ✓**
2. stays the same.
3. decreases.



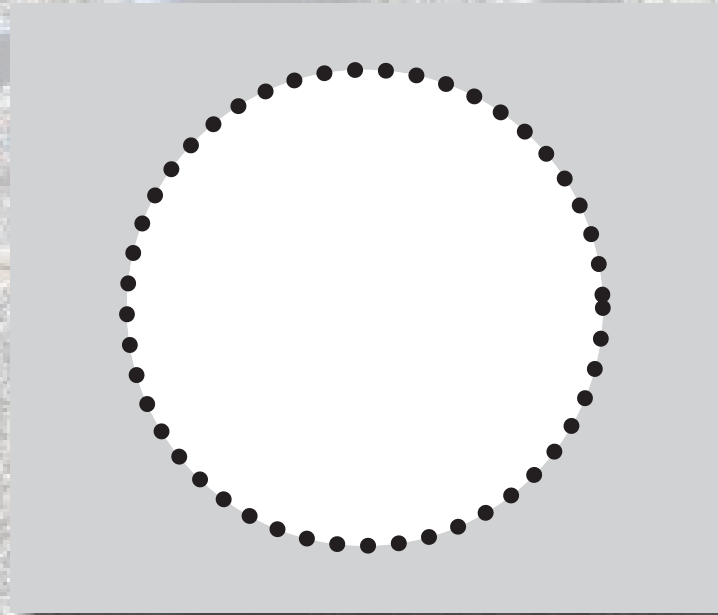
consider atoms at rim of hole



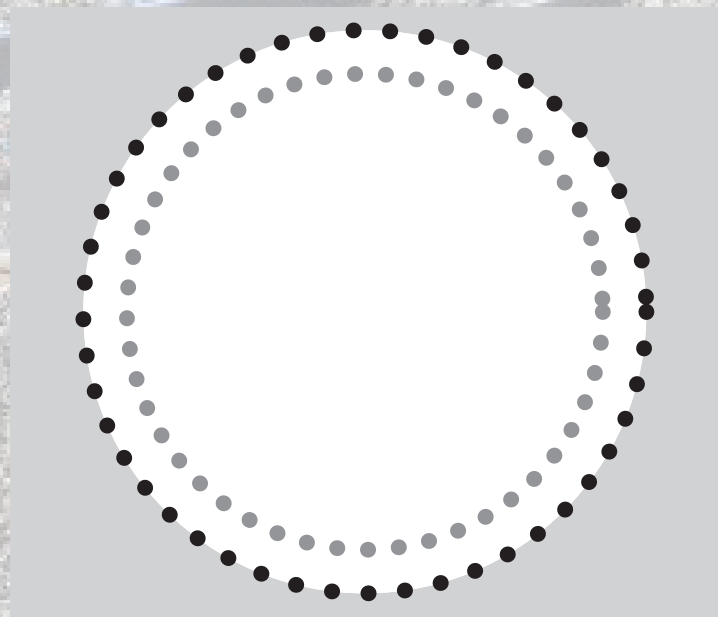
consider atoms at rim of hole



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consider atoms at rim of hole



consider atoms at rim of hole

you won't forget this







Education in 21st century is not just about:

- **transferring information**
- **getting students to do what we do**

social engagement in & out of classroom a must!

ericmazur.com

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