

CHARGE INTERACTIONS CB

Apprentice:

Remember that opposites attract and like repel, but also charged objects can attract with neutral. For objects to repel they must be charged.

Object A is negatively charged. **Object A** and **Object B** attract. **Object B** and **Object C** repel. **Object C** and **Object D** attract. What type of charge does Object B, Object C, and Object D possess?

Tap to toggle through possible options for Type of Charge:

Type of Charge on B: Tap here to toggle choices.

Type of Charge on C: Tap here to toggle choices.

Type of Charge on D: Tap here to toggle choices.

For this case, A is negative and attracts B, this means that B can be positive or neutral. However, B and C repel so B cannot be neutral. Therefore, B is positive and so is C. Since C is positive and attracts D, D can be negative OR neutral.

Your choices for each object will be:

Positive (+)

Negative (-)

Neutral (0)

Positive (+) or Neutral (0)

Negative (-) or Neutral (0)

Positive (+) or Negative (-)

+ or - or 0

You may want to write the possibilities for each object as you go through the problem.

