Phys Sci
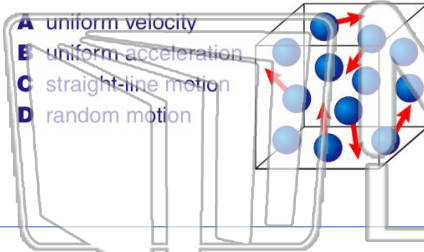
Name_____ Class_____ Date_____

1 Gas molecules at the **same temperature** are always assumed to have

A uniform velocity
B uniform acceleration
C straight-line motion
D random motion

2 Which property determines the **direction** of the **exchange of internal energy** between two objects?

A temperature
B specific heat
C mass
D density

3 Equal masses of **zinc** and **copper** at room temperature are placed in an oven that supplies heat energy at a rate of 1 kilojoule per minute. Compared to the time needed for

4 As the **volume** of a fixed mass of an ideal gas **increases** at constant temperature, the **product** of the pressure and the
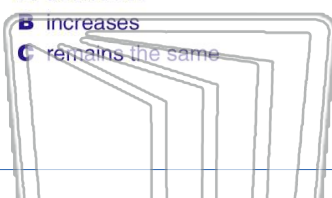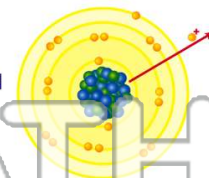
5

PREVIEW

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7

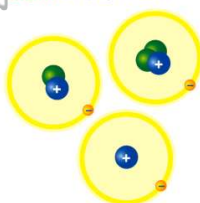the **density** of that gas

A decreases
B increases
C remains the same
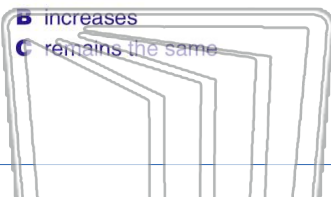
A decrease by one
B increase by one
C remain unchanged
D decrease by two
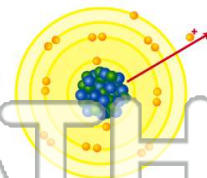
9 What is the **minimum energy** needed to **ionize** a hydrogen atom in the n = 2 energy state?

A 13.6 eV
B 10.2 eV
C 3.40 eV
D 1.89 eV

10 An object **can not** have a **charge** of

A 3.2×10^{-19} C
B 4.5×10^{-19} C
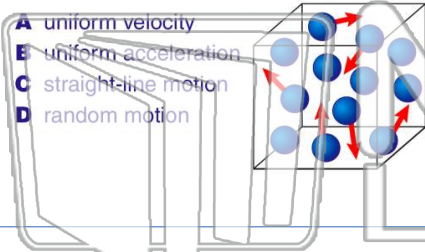C 8.0×10^{-19} C
D 9.6×10^{-19} C

Name_____ Class_____ Date_____

1 Gas molecules at the **same temperature** are always assumed to have

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D

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5

B

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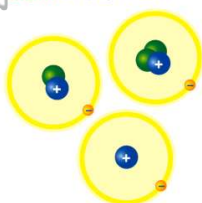
A decreases
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C remains the same

B

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