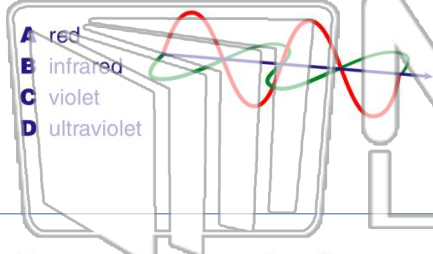




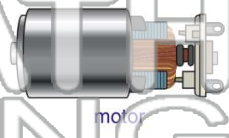
Name _____ Class _____ Date _____

1 In which part of the electromagnetic spectrum does a **photon** have the **greatest energy**?



- A red
- B infrared
- C violet
- D ultraviolet

2 An operating **electric motor** has a **back electromotive force** because, in addition to acting as a motor, it acts as



- A a split-ring commutator
- B a transformer
- C an induction coil
- D a generator

3 A torque exists on the armature of an operating electric motor. The **magnitude of this torque would decrease** if there were an **increase** in the

4 As the armature of an operating electric motor turns, a **voltage is induced**. This voltage is **opposite in direction** to the



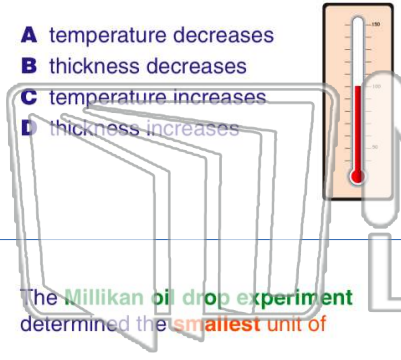
5

PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7

A temperature decreases
B thickness decreases
C temperature increases
D thickness increases



having a **flux density of 2.0 teslas**. What is the **magnitude of the magnetic force on the electron**?

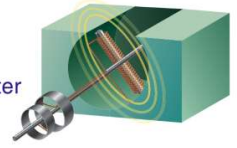
- A $1.0 \times 10^{-6} \text{ N}$
- B $6.4 \times 10^{-13} \text{ N}$
- C $3.6 \times 10^{-24} \text{ N}$
- D $4.0 \times 10^6 \text{ N}$

9 The **Millikan oil drop experiment** determined the **smallest unit of**

- A mass
- B weight
- C electric charge
- D electric field strength

10 Which device **transforms mechanical energy into electrical energy**?

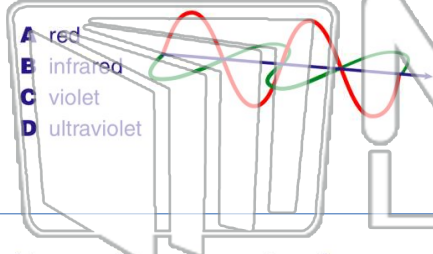
- A generator
- B motor
- C transformer
- D mass spectrometer





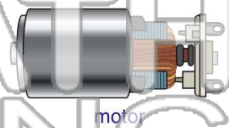
Name _____ Class _____ Date _____

1 In which part of the electromagnetic spectrum does a **photon** have the **greatest energy**?



- A red
- B infrared
- C violet
- D ultraviolet

2 An operating **electric motor** has a **back electromotive force** because, in addition to acting as a motor, it acts as



- A a split-ring commutator
- B a transformer
- C an induction coil
- D a generator

3 A torque exists on the armature of an operating electric motor. The **magnitude of this torque would decrease** if there were an **increase** in the

4 As the armature of an operating electric motor turns, a **voltage is induced**. This voltage is **opposite in direction** to the



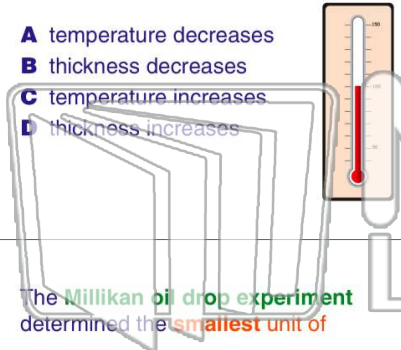
5

PREVIEW

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

7

A temperature decreases
B thickness decreases
C temperature increases
D thickness increases



8 having a **flux density of 2.0 teslas**. What is the **magnitude of the magnetic force on the electron**?

- A 1.0×10^{-6} N
- B 6.4×10^{-13} N
- C 3.6×10^{-24} N
- D 4.0×10^6 N

9 The **Millikan oil drop experiment** determined the **smallest unit of**

- A mass
- B weight
- C electric charge
- D electric field strength

10 Which device **transforms mechanical energy into electrical energy**?

- A generator
- B motor
- C transformer
- D mass spectrometer

