

اختبار فيزياء منهج حكومي



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الثاني عشر المتقدم ← فيزياء ← الفصل الثالث ← اختبارات ← الملف

تاريخ إضافة الملف على موقع المناهج: 2026-05-02 14:35:31

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة
فيزياء:

التواصل الاجتماعي بحسب الصف الثاني عشر المتقدم



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

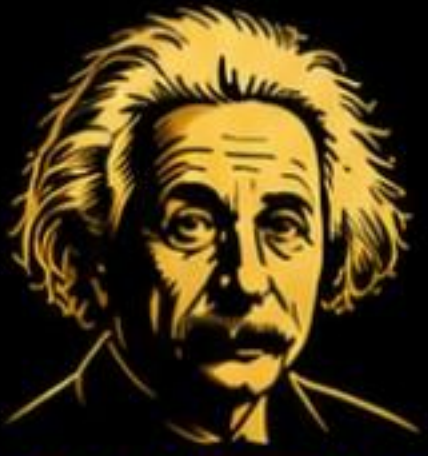
اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الثاني عشر المتقدم والمادة فيزياء في الفصل الثالث

اختبار فيزياء منهج حكومي	1
انسباير ملزمة الوحدة الثانية تحليل أسئلة الفيزياء النووية حول النواة والاضمحلال الإشعاعي	2
انسباير ملزمة الوحدة الأولى حول التأثير الكهروضوئي وكومتون ودي برولي	3
ملخص وأوراق عمل الدرس الأول Nucleus The من وحدة physics particle and Nuclear منهج انسباير	4
مذكرة الدرس الثاني Atom the and Theory Quantum من وحدة Atoms in Electrons منهج انسباير	5



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SELECTED



TIME
SAVING

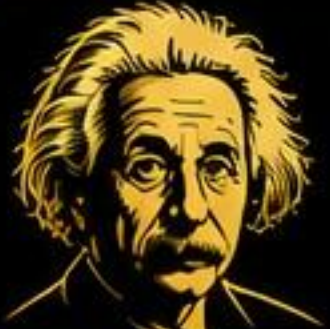


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★ — BUBBLE SHEET — ★



INSTRUCTIONS



Shade ONE
answer only.



Use dark
pen or pencil.



Do not mark
outside circles.

Q.	MARKS	ANSWERS				SCORE
1	4	A	B	C	D	 / 4
2	4					 / 4
3	4					 / 4
4	4					 / 4
5	4					 / 4
6	4					 / 4
7	4					 / 4
8	4					 / 4
9	3					 / 3
10	3					 / 3
11	3					 / 3
12	3					 / 3
13	3					 / 3
14	3					 / 3

 NAME : _____

 CLASS : _____

 DATE : _____

TOTAL SCORE

/ 50



ACHIEVE YOUR BEST



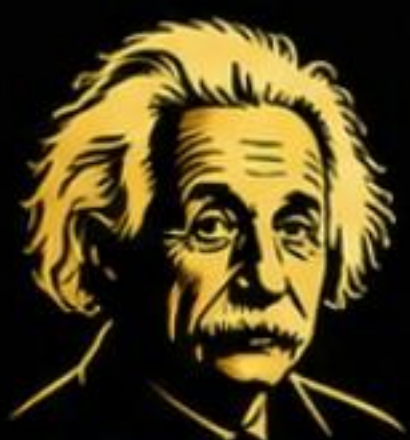
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Incident radiation falls on a tin surface.
The threshold frequency of tin is:

$$f_0 = 1.2 \times 10^{15} \text{ Hz}$$

Cathode

Anode



$$\lambda = 167 \text{ nm}$$



+

-

1

What is the threshold wavelength of tin?

(A)

$$1.67 \times 10^{-7} \text{ m}$$

(B)

$$2.5 \times 10^{-7} \text{ m}$$

(C)

$$3.0 \times 10^{-7} \text{ m}$$

(D)

$$1.2 \times 10^{-6} \text{ m}$$

2

What is the work function of tin?

(A)

$$5.0 \text{ eV}$$

(B)

$$2.4 \text{ eV}$$

(C)

$$1.6 \text{ eV}$$

(D)

$$0.8 \text{ eV}$$

3

The incident radiation has wavelength $\lambda = 167 \text{ nm}$.
What is the maximum kinetic energy of the emitted electrons?

(A)

$$7.4 \text{ eV}$$

(B)

$$5.0 \text{ eV}$$

(C)

$$2.4 \text{ eV}$$

(D)

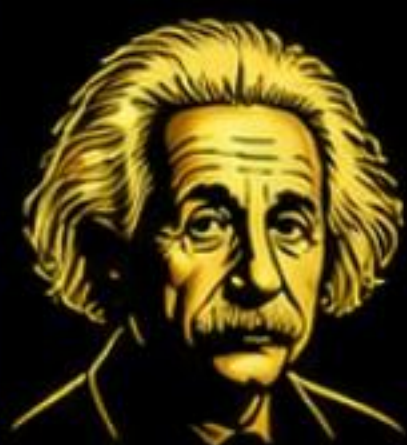
$$1.6 \text{ eV}$$



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Two iron bars are heated. One glows dark red, while the other glows bright orange. Which bar is hotter?

- (A)** The dark red bar
- (B)** The bright orange bar
- (C)** Both have the same temperature
- (D)** Cannot be determined

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Which bar is radiating more energy?

- (A)** The dark red bar
- (B)** The bright orange bar
- (C)** Both radiate the same energy
- (D)** Depends on the material only

6

Will high-frequency light eject a greater number of electrons than low-frequency light (both above threshold)?

- (A)** Yes, always
- (B)** No, the number depends on intensity (brightness)
- (C)** Yes, because energy is higher
- (D)** No, because frequency has no effect at all

7

Potassium emits electrons under blue light, while tungsten requires ultraviolet light. Which metal has the higher threshold frequency?

- (A)** Potassium
- (B)** Tungsten
- (C)** Both are equal
- (D)** Cannot be determined

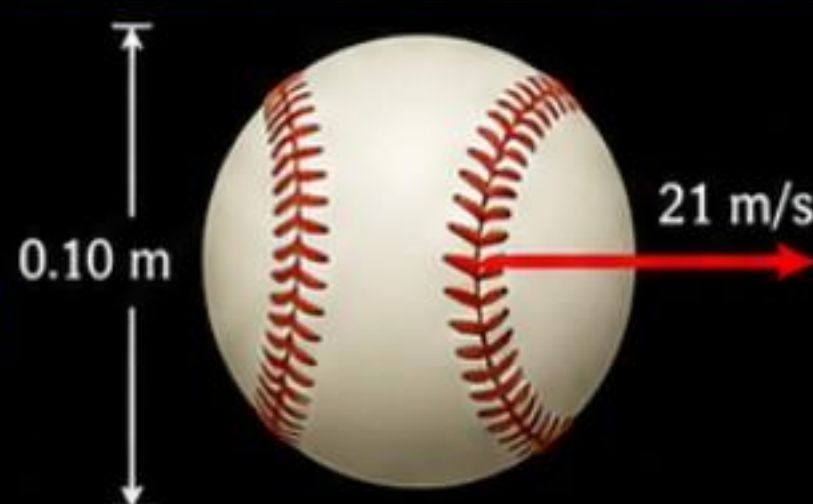
8

Which metal has the larger work function?

- (A)** Potassium
- (B)** Tungsten
- (C)** Both are equal
- (D)** Depends on intensity

9

A baseball of diameter 0.10 m moves at 21 m/s. How does its de Broglie wavelength compare to its size?



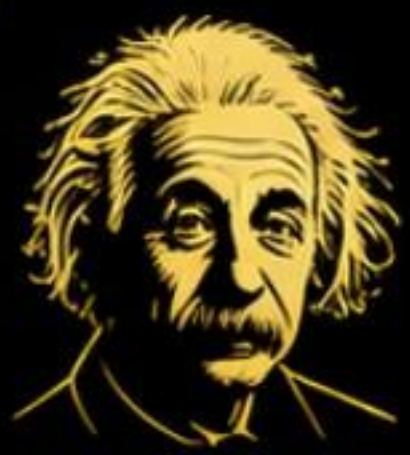
- (A)** Same order of magnitude
- (B)** Slightly smaller
- (C)** Much smaller than the diameter
- (D)** Larger than the diameter



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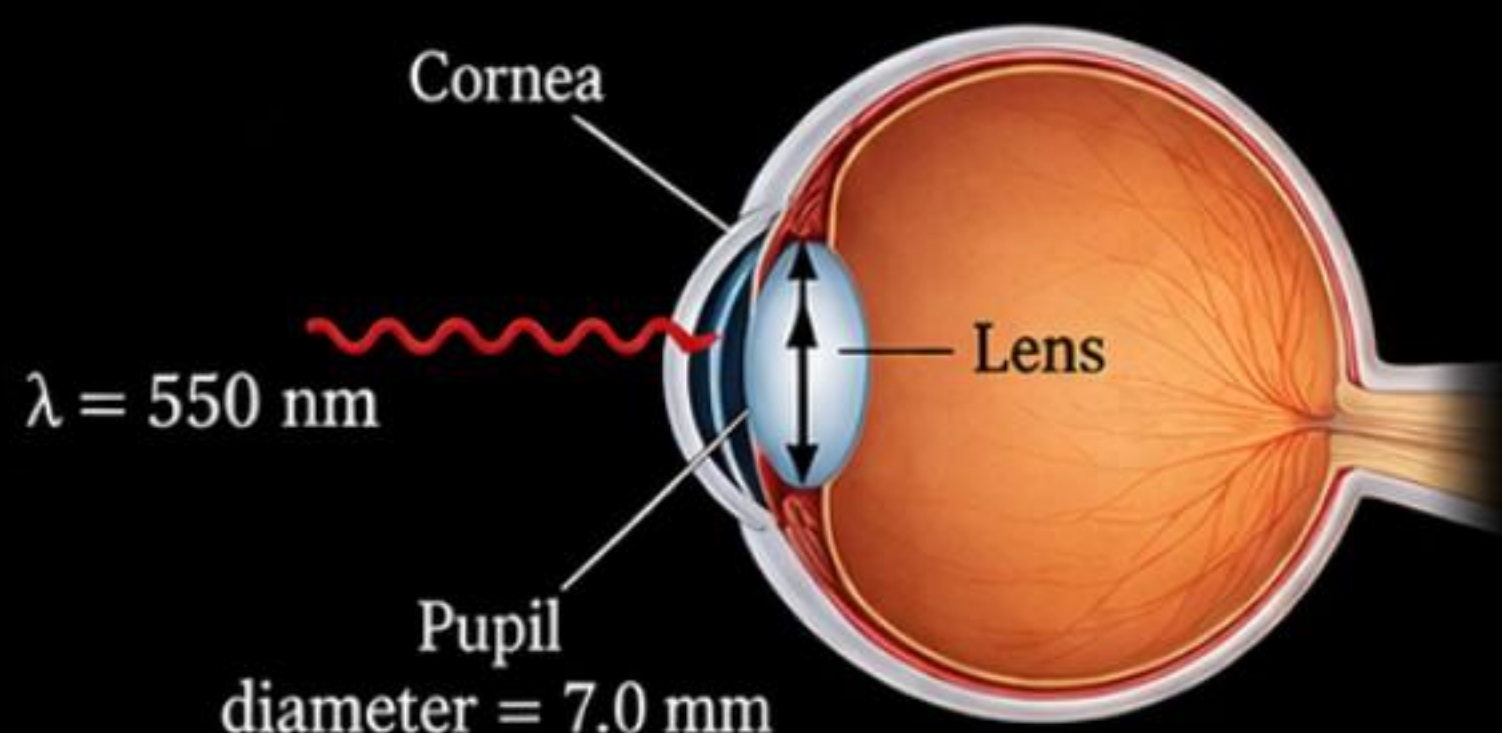
10

Just barely visible light has intensity:

$$I = 1.5 \times 10^{-11} \text{ W/m}^2$$

The pupil diameter is 7.0 mm.

What is the power entering the eye?



- (A) $5.8 \times 10^{-16} \text{ W}$ (B) $1.5 \times 10^{-11} \text{ W}$ (C) $3.6 \times 10^{-19} \text{ W}$ (D) $7.0 \times 10^{-6} \text{ W}$

11

Light of wavelength: $\lambda = 550 \text{ nm}$

What is the energy of one photon?

- (A) $3.62 \times 10^{-19} \text{ J}$ (B) $5.8 \times 10^{-16} \text{ J}$ (C) $1.6 \times 10^{-19} \text{ J}$ (D) $6.63 \times 10^{-34} \text{ J}$

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Using the results above, what is the number of photons per second entering the eye?

- (A) $1.6 \times 10^3 \text{ photons/s}$ (B) $5.8 \times 10^{16} \text{ photons/s}$ (C) $3.6 \times 10^{-19} \text{ photons/s}$ (D) $1.5 \times 10^{-11} \text{ photons/s}$

13

Light of wavelength 443 nm ejects electrons with kinetic energy 1.56 eV.

What is the work function of the metal?

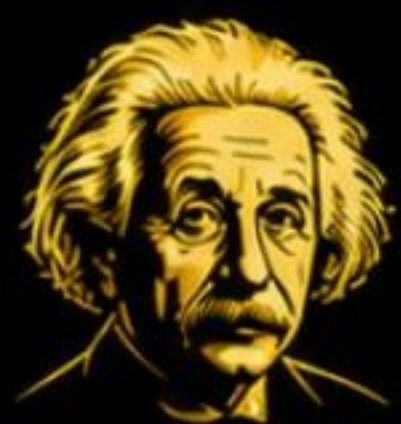
- (A) 1.24 eV (B) 2.80 eV (C) 1.56 eV (D) 3.60 eV



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A researcher illuminates a sample of metal and finds the longest wavelength to eject electrons is **273 nm**. Use Table 1 to identify the most likely metal.

Table 1 Threshold Frequency, Threshold Wavelength, and Work Function for Selected Metals

Metal	Threshold Frequency ($\times 10^{14}$ Hz)	Threshold Wavelength (nm)	Work Function (eV)
Cesium	4.70	637	1.95
Magnesium	8.84	339	3.66
Silver	11.1	270	4.6
Sodium	5.70	526	2.36

A

Cesium

B

Magnesium

C

Silver

D

Sodium



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