Physics I Honors: Chapter 14 Practice Test - Refraction of Light

Multiple Choice

Identify	the	Leaser.	coff thee.	choice	All out	Beerst	compy	letter N	be stor	February 2007	GMT.	CERTIFICATION OF THE	other.	greention.	
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	100	Refraction is the bending of a wave disturbance as	it passes at an angle from one into another.										
		a. glass c.	area										
		b. medium d.	boundary										
	25	Which is an example of refraction?											
			- NOT 이 HER IN THE TRANSPORT OF THE STATE HER IN THE STATE IN THE STA										
			사이를 보지 않는데 마다 아이들 마다 아이들이 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데 아니는데										
		riverbank.											
		 In a mirror, when you lift your right arm, the left arm of your image is raised. 											
		d. Light is bent slightly around corners.											
	3.	요즘 가는 사람들은 사람들이 아니는 아니는 사람들이 되었다면 하는 것이 되었다면 하는데	one material into another material in which its speed is										
	-	lower,											
		 a. it is bent toward the normal to the surface. 											
		b. it always lies along the normal to the surface.											
		c. it is unaffected.											
		d. it is bent away from the normal to the surface.											
	4.	When a light ray moves from air into glass, which	has a higher index of refraction, its path is										
			parallel to the normal.										
		 b. bent away from the normal. d. 	not bent.										
	55	When a light ray passes from zircon ($n = 1.923$) in	nto fluorite ($n = 1.434$) at an angle of 60°, its path is										
	- 58		parallel to the normal.										
			not bent.										
	65	A beam of light in air is incident at an apple of 35	to the surface of a rectangular block of clear plastic (n =										
	-	1.49). What is the angle of refraction?	to the surface of a recompanial cover of creat practice (or										
			42°										
			57*										
	40	나는 아이들이 가는 사람이 되는 것이 되었다. 그 아이들은 그리고 있는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	entainer made of crown glass ($n = 1.52$). If a light ray in the										
	7.5		nd makes an angle of 30.0° with the normal, what is the										
		angle of the corresponding refracted ray with resp											
			31.4"										
			64.4*										
	8.7												
	40%		curved										
			projected										
	476												
	26.5	9. In what direction does a parallel ray from an object proceed after passing through a diverging lens?											
		a. The ray passes through the center of curvature, C. b. The ray continues parallel to the principal axis. c. The ray passes through the center of the lens.											
		 d. The ray is directed away from the focal point, F. 											
	100	In what direction does a focal ray from an object proceed after passing through a diverging lens?											
	100.		proceed after passing through a diverging tens:										
		 a. The ray passes through the focal point, F. b. The ray passes through the center of the lens. 											
		 c. The ray exits the lens parallel to the principal d. The ray intersects with the center of curvature 											
		a. The ray intersects with the center of curvature	No.										

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Rosina Ehmann

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web jul 16 2020 dok level 1 recall what is the knowledge who what when where dok level 2 skill concept how can the knowledge be used how can you arrive at the answer dok level 3 strategic thinking why does it happen the way it does how why could the knowledge be used dok level 4 extended thinking how else could you use

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web nov 2 2018 multiple choice questions can be written at a dok 3 or 4 level however to design a question in this format is difficult an item at dok level 3 or 4 requires complex reasoning strategic and extended thinking about the concepts of the content and a real world context and especially at a level 4 that requires research investigation and using webb s depth of knowledge to increase rigor edutopia - Nov 06 2022

web sep 4 2014 dok levels are also not developmental all students including the youngest preschoolers are capable of strategic and extended thinking tasks what they look like will differ and what is level 3 to a kindergarten student may be a level 1 task for a middle schooler all students however should have opportunities to do complex reasoning

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web dok 3 3 lafs 3 rl 1 2 recount stories including fables folktales and myths from diverse cultures determine the central message lesson or moral and explain how it is conveyed through key details in the text dok 2 4 lafs 4 rl 1 2 determine a theme of a story drama or poem from details in the text summarize the text dok 3 depth of knowledge questions math evelynlearning com - Jul 14 2023

web jan 13 2020 $\,$ 3 describe the 7 different types of quadrilaterals along with diagrams 4 discern the derivative of f x 5 fill in the blanks with appropriate numbers x 2 3 dok level 3 connect the highlighted points and calculate the areas of all the triangles rectangles and squares that are possible

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web at dok level 3 the depth of knowledge questions for science should focus on a concept that has more than one possible answer at dok 3 students will design investigations around scientific questions evaluate models of engineering solutions justify conclusions based on experimental data with reasoning and evidence dok 4

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web level 3 strategic thinking requires reasoning planning using evidence and a higher level of thinking than the previous two levels in most instances requiring students to explain their thinking is a level 3 activities that require students to make conjectures are also at this level the cognitive demands at level 3 are complex and abstract

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web i ve decided to expand upon my previous depth of knowledge matrix that helped make it easier to distinguish between depth of knowledge levels in mathematics while it is still useful it didn t cover every grade level and may be too broad in scope so i have made two new depth of knowledge matrices one for elementary mathematics and one for depth of knowledge dok for writing edulastic blog - Feb 26 2022

web sep 21 2015 writing allows us to assess the higher level thinking skills that are central to level 4 argumentative writing

and prompts that ask students to synthesize information from multiple sources or works are great ways to get at level 4 dok skills in multi paragraph work students demonstrate synthesis and analysis of complex ideas or themes depth of knowledge in the english language arts classroom - Apr 30 2022

web dok 3 use information or conceptual knowledge two or more steps etc students have practiced these skills with assistance from kindergarten to second grade and on their own since third grade questions that lie at dok 1 necessitate only memorization and recall and so do not promote

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web if there is a question regarding which of two levels a standard addresses such as level 1 level 2 or level 2 level 3 it is appropriate to assign the highest level as the dok ceiling for the task but also provide opportunities at the lower dok levels as an instructional progression e g summarizing a text dok 2 before

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web dec 15 2016 social studies assessments particularly those written to test the history or economic related standards allow teachers to assess the full range of a student s depth of knowledge dok of the content area considering level 1 through 4 dok question stems for social studies can help teachers better pinpoint student understanding and where

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web aug 8 2022 level 1 dok despite a question s simplicity you can still provide your class with many activities having them finish a range of products depending on the question s purpose students can paraphrase a passage or chapter of a book outline and re iterate the main points of a recent lesson

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web dok 1 recall and reproduce dok 2 basic application of skills and concepts dok 3 strategic reasoning dok 4 extended reasoning the questions you can ask in each strand are easy to

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web description this circular poster is based on webb's depth of knowledge which provides a vocabulary and a frame of reference when thinking about our students and how they engage with the content dok offers a common language to understand rigor or cognitive demand in assessments as well as curricular units lessons and tasks

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web apr 19 2019 they soon discovered that there weren t very many dok 4 questions those are really high level tasks some of them needed hints they noticed that there weren t any dok level 3 questions in kindergarten a lot of them had trouble deciding if the questions was a 2 or a 3

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web dec 3 2019 each column explores one of eight topics rounding adding 3 digit numbers subtracting 3 digit numbers multiplying multiples of ten fractions on a number line multiplying and dividing within 100 operations with time and area and perimeter you ll notice that the first problem in the column is traditional and familiar

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web dok level 4 extended thinking this is the most advanced stage of the depth of knowledge framework and involves students making a significant cognitive effort it encourages students to gather information from multiple resources to solve a specific problem it also motivates them to know the how and why of things

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web dok level 3 requires higher cognitive demands than the previous levels students explain justify thinking and provide supporting evidence for reasoning or conclusions drawn level 3 tasks typically require reasoning complexity developing a plan or sequence of steps and have more than one possible response or solution

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web 1 how will you plan to use this in your classroom during whole group or small group instruction and why 2 when do you see the need to use dok question level 3 and dok question level 4 in your classroom 3 looking at your content and standard s objectives create 3 4 questions using dok level 3 and dok level 4

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web to see mitosis occurring in a plant the best place to look are the growing tips as most plants experience apical growth growth from the tips obtain a prepared slide of an onion root tip allium cepa cells toward the apex pointed end are likely to have been caught in a stage of active division

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web oct $3\ 2010$ allium root tip examine the square cells just inside the root cap this is the root meristem embryonic tissue where mitosis is occurring farther up the root is the elongation zone where cells are long rectangles these cells are not undergoing mitosis i

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web mitosis iron hematoxylin an onion root tip is a rapidly growing part of an onion and thus many cells will be in different stages of mitosis an onion cell possesses 8 chromosomes whereas human cells possess 46 chromosomes examine the following cells in different stages of mitosis observe the cell at the center of each view

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web find and make observations of cells in each phase of mitosis in plant and animal tissue compare the differences between plant and animal mitosis be able to correctly identify the phases from both plant and animal tissue materials prepared slide labeled allium root mitosis prepared slide labeled whitefish blastula mitosis compound

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web the micrographs below are onion allium cepa root tip cells onion has 2n 16 chromosomes each of the cells has two sets of chromosomes where each set is made up of eight chromosomes the micrographs are real examples of the illustrations above stages of mitosis in onion root tip melissa ha cc by nc sa 2 0 interphase

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web mitosis is also called somatic cell division or equatorial division the process of cell division whereby chromosomes are duplicated and distributed equally to the daughter cells is called mitosis it helps to maintain the constant chromosome number in all cells of the body

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web cell division and root elongation such processes enable a root to grow down into the soil to generate this image arabidopsis thaliana plants were genetically labeled with a plasma membrane marker in green and a nuclear marker in purple the root tips were imaged using time lapse microscopy in a confocal microscope with a vertical allium onion root tip mitosis slide home science tools - Mar 31 2022

web sku ms allroot this onion root tip slide shows a monocot root tip with all stages of mitosis visible telophase the final phase of cell division will appear as two nuclei are formed and have little or no cell wall between

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web jul 11 2023 obtain a slide of allium root tip for observation of the stages of mitosis in a plant cell examine the slide under a microscope draw and label all stages of mitosis below

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web 1 labeled student number of cells stage the individual student comparison of mitotic index and average cell length at various levels in the root tip mitotic index and average cell length expressed as percentage of maximum observed root tip of allium cepa amer j bot 45 365 372 mazia d 1961 mitosis and the phy

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web microscope prepared slides of onion allium root tips procedure obtain a prepared slide of an onion root tip there will be three root tips on a slide hold the slide up to the light to see the pointed ends of the root sections this is

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web onion root mitosis allium root tip by joseph c rossi it is common to see photomicrographs of onion root cells when demonstrating how cell division takes place in plants onions have larger chromosomes than most plants and stain dark the chromosomes are easily observed through a compound light microscope

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web procedure you will be given a slide of allium which is an onion root tip growth occurs when cells divide so the root tips should have several cells in the process of cell division view the root tip under the microscope and search for organized blocks of cells where nuclei are plainly visible

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web prepared slide with allium root tips longitudinal section showing cells in all stages of mitosis with dna stained to clearly show chromosomes useful for exploring structure function connections as per ngss standards expertly prepared and labeled for easy identification available in single slide 10 pack and 25 pa