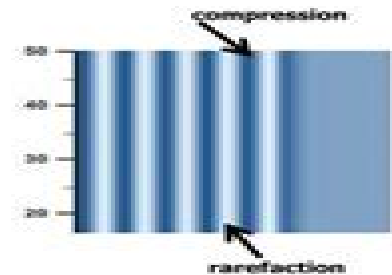


Student Exploration: Ripple Tank

Ripple tanks are particularly useful because many properties of water waves are shared by other kinds of waves that are harder to see. A ripple tank, such as the one shown in the *Ripple Tank Gizmo™*, is a shallow pan of water with a vibrating motor that produces waves that can be compared to *longitudinal* waves. The tank is lit from above so that the areas of *compressions* and *rarefactions* are visible. The light regions represent rarefactions (the water is less deep so the light shines through it), while the dark areas represent compressions (the water is deeper so light does not penetrate as well).



Exploration A: Factors that control diffraction

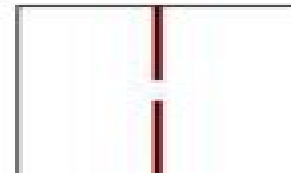
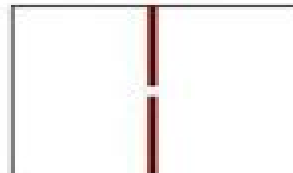
Get the Gizmo ready:

- Select Barrier with 3-cm gap from the Scenario menu.
- Check that Wave strength is 1.20.
- Set the Wavelength to 6.0 cm.



The ability of waves to spread from a point such as the gap in the barrier is called **diffraction**. This ability allows waves to turn corners in ways that individual particles cannot.

1. Investigate: Click **Play**, wait for the waves to reach the right side of the tank, and click **Pause**. Sketch the waves in the diagram on the left, below. Click **Reset**, and repeat the procedure with the **Barrier with 6-cm gap** selected. (You will have to set the **Wavelength** to 6.0 cm again.) Sketch the waves in the diagram on the right.



Which diagram shows more bending of the wave as it passes through the gap? _____

2. Predict: Which wave do you think will bend more when it passes through a barrier with a 10-cm gap: A wavelength of 5.0 cm or a wavelength of 30.0 cm? _____
3. Test: Select the **Barrier with 10-cm gap**. Play simulations with wavelengths of 5.0 cm and 30.0 cm. What do you notice? _____
4. Summarize: In general, what is the relationship between diffraction and the ratio of wavelength to gap width? _____

Exploration B: Interference (when waves combine)

Get the Gizmo ready:

- Select **Single central source**. Check that the **Wavelength** is 16.0 cm.
- Set the **Wave strength** to 1.00.



1. Observe: Press **Play**. Describe the waves you see: _____

Answer Key Student Exploration Ripple Tank

Lei Shi



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web jul 12 2023 film analizi dersu uzala İnsan ile tabiatın ayrılmaz bir bütün olduğunu gösteren filmdir dersu uzala japon sinemasının önemli ismi akira kurosawa nın yönetmen koltuğunda oturduğu yapım bilge avcı dersu uzala üzerinden seyirciyi doğanın sesini dinlemeye davet ediyor

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web arsenyev dersu uzala yı arkadaşı ve rehberi olarak kabul eder ve birlikte birçok tehlikeli macera yaşarlar dersu uzala nın doğadaki bilgeliği ve yaşam becerileri arsenyev için büyük bir öğrenme deneyimi olur türkçe altyazı

maxim munzuk wikipedia - Dec 29 2021

web he is best known for playing the title role in akira kurosawa s film dersu uzala the versatile and creative munzuk was an actor director singer collector of musical folklore composer and teacher originally a musician in the military munzuk served as the commander of tyva s artillery regiment orchestra

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web dersu uzala rus kaşif viladimir arsenyev in 1902 10 yılları arasında sibirya bölgesindeki araştırmalarını konu alan aynı adlı romanından uyarlanan film arsenyev ve ekibinin araştırma ve haritalama çalışmaları sırasında tanıştıkları yaşlı bir yöre avcısı olan dersu uzala ile kurdukları derin dostluğu ve ondan

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web kızıl ordu ya mensup bir grup asker harita çalışmaları için rusya nın en doğusuna kadar bir yolculuğa çıkarlar yolculukları sırasında karşlarına ormanın derinliklerinden gelen ve doğada yaşayan bir adam çıkar dersu uzala bu karşılaşmayla başlayan olay örgüsü kurosawa nın filminin içeriğini oluşturuyor

dersu uzala 1975 film wikipedia - Apr 13 2023

web dersu uzala russian Дерсу Узала japanese DERUZO UZALA romanized derusu uzāra alternative u s title dersu uzala the hunter is a 1975 soviet japanese film directed and co written by akira kurosawa his only non japanese language film and his only 70mm film

dersu uzala wikipedia - Jul 16 2023

web dersu uzala russian Дерсу Узала 1849 1908 was a nanai trapper and hunter he worked as a guide for vladimir arsenyev who immortalized him in his 1923 book dersu uzala the book was adapted into two feature films with the version by akira kurosawa being the better known

dersu uzala film 1975 beyazperde com - Feb 11 2023

web Özet rus ordusundan bir araştırmacı uzaklardaki bir ormanda araştırma yaparken doğanın dilinden anlayan bilge dersu uzala ile karşılaşır bu karşılaşma araştırmacıya doğanın ve dostluğun anlamını hatırlatır ve onu yeni bilgilerle donatır

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web dersu uzala is epic in form yet intimate in scope set in the forests of eastern siberia at the turn of the century it is a portrait of the friendship that grows between an aging hunter and a

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web dersu uzala drama full movie based on the work of the scientist and writer famous traveler and explorer of the far east v arseniev the story of his friendship with the guide dersu uzala

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web sep 13 2023 dersu uzala japon sinemasından akira kurosawa nın yönetmen koltuğunda oturduğu yapım bilge avcı dersu uzala üzerinden seyirciyi doğanın sesini dinlemeye davet eder filmde doğa dingin bir sığınak huzur veren bir yuvayken aynı zamanda ürkütücü kendinizi savunmanız gereken bir fırtına gibi

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web jan 26 2010 dersu uzala 1975 movie clip three mighty people native dersu maksim munzuk title character winning over russian military cartographer arsenyev yuriy solomin and his crew with wisdom and sharpshooting director akira kurosawa working on location in siberia in the soviet financed dersu uzala 1975

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dersu uzala current the criterion collection - Nov 08 2022

web jul 17 1995 by donald richie jul 17 1995 k urosawa made the acquaintance of desu uzala thirty years earlier when he read vladimir arseniev s account of charting the russian manchurian border in the earlier part of this century there the russian soldier and explorer had met dersu the siberian hunter man of the tundra

dersu uzala akira kurosawa the guardian - Sep 06 2022

web jan 8 2012 dersu uzala i n the early 1970s akira kurosawa s fortunes and spirit were at a low ebb he d been dropped by hollywood from the pearl harbor epic tora tora tora in which he had invested much

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web dersu uzala Дерсу Узала japonca akira kurosawa tarafından yönetilmiş 1975 sovyet japon ortak yapımı bir filmdir daha önce çevrilen aynı isimli 1961 sovyet yapımı bir film de vardır

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web dersu uzala 1849 1908 rus gezgin ve yazar viladimir arsenyev in kitabıyla dünyaya tanıttığı nani halkından gezgin ve avcı rus asker yüzbaşı arsenyev in ekibiyle rusya nın uzak doğu kesimlerine yönelik araştırma ve keşif gezisi sırasında ussuri bölgesinde karşılaştığı dersu uzala o sıralar 53 yaşında ancak

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web yönetmen akira kurosawa senaryo akira kurosawa yuri nagibin vladimir arsenyev Ülke sscc japonya tür macera biyografi dram rating 8 2 75 vizyon tarihi 01 nisan 1978 türkiye dil rusça chinese müzik isaak shvarts bütçe 4 000 000 Çekim yeri mosfilm studios moscow rusya kelimeler avcı kaşif rus devamı nam ı diğer