Total Internal Reflection

Activity 1: To TIR or Not TIR Question Group 1 Question 1







Question Group 2 Question 4







Question Group 3 Question 7







Question Group 4 Question 10







Activity 2: R and R or TIR Question Group 5 Question 13







Question Group 6 Question 16







Question Group 7 Question 19







Question Group 8 Question 22







Activity 3: Angle is Critical Question Group 9 Question 25

Medium 2 is more dense than medium 1. The critical angle for the boundary is 30°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Medium 2 is more dense than medium 1. The critical angle for the boundary is 30°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Medium 1 is more dense than medium 2. The critical angle for the boundary is 30°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Question Group 10 Question 28

Light travels faster in medium 1 than in medium 2. The critical angle for the boundary is 40°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Light travels faster in medium 1 than in medium 2. The critical angle for the boundary is 40°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Light travels faster in medium 2 than in medium 1. The critical angle for the boundary is 40°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Question Group 11 Question 31

The index of refraction of medium 1 is more than index of refraction of medium 2. The critical angle for the boundary is 45°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



The index of refraction of medium 1 is more than index of refraction of medium 2. The critical angle for the boundary is 45°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



The index of refraction of medium 2 is more than index of refraction of medium 1. The critical angle for the boundary is 45°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Question Group 11 Question 34

Medium 1 is more dense than medium 2. The critical angle for the boundary is 50°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Medium 1 is more dense than medium 2. The critical angle for the boundary is 50°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.



Medium 2 is more dense than medium 1. The critical angle for the boundary is 50°. In which diagram(s) below will the incident ray undergo total internal reflection? Tap on all that apply.

