

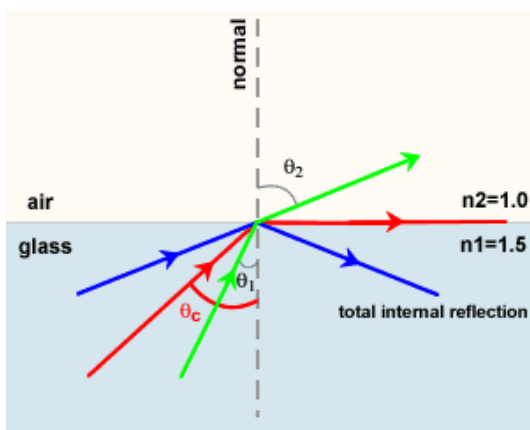
Total Internal Reflection

- When light travels from _____ material to _____ material the amount of _____ can be greater than the amount of _____
- As the angle of incidence increases, the _____ will _____ be _____ than the _____
- The angle at which the incident ray causes the refractive ray to disappear is called the _____
- At the critical angle and above, all the incident light will be reflected back into the denser medium, this is called _____

Total internal reflection occurs when these two conditions are met:

1.

2.



Diamonds are Forever

- One of the features that make diamonds so attractive is _____

- This “sparkling” is due to the cut of the diamond faces, which results in the total internal reflection of light



Fibre Optics

- An optical fibre is made of a tiny glass fibre called the _____ that is

- A _____ made of a different type of glass covers the core
- The speed of light in the cladding is higher than it is in the core, thus light is

