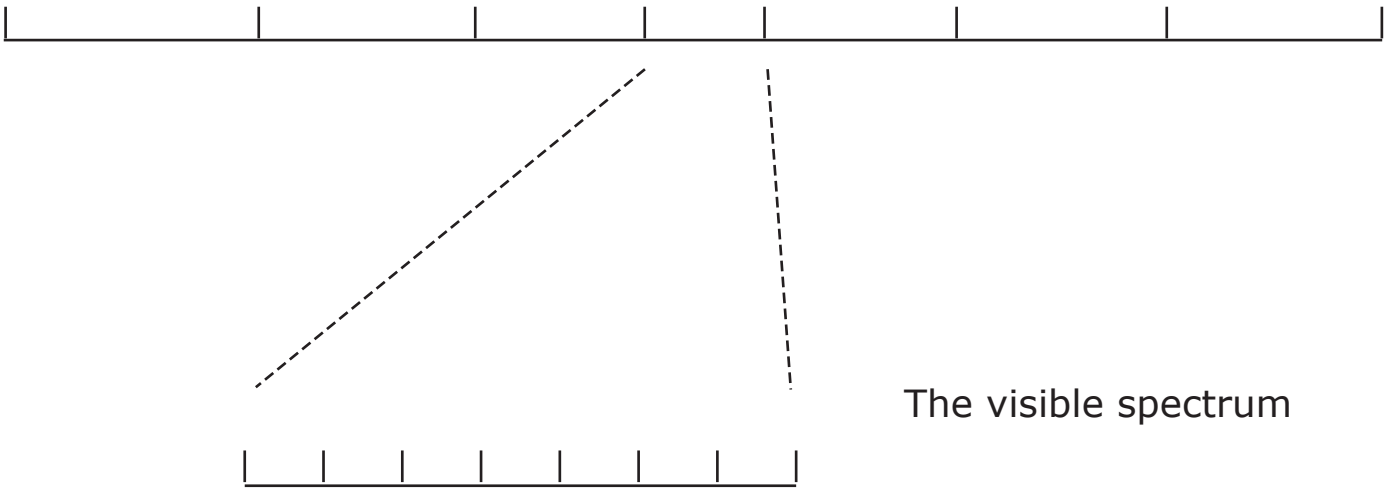
LIGHT

Kinds of light:



The visible spectrum

THEMIS filters

Filters used in video/digital cameras:

A red filter allows _____ light through.

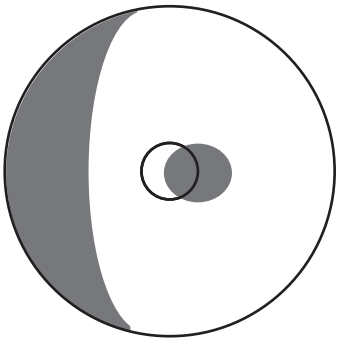
A green filter allows _____ light through.

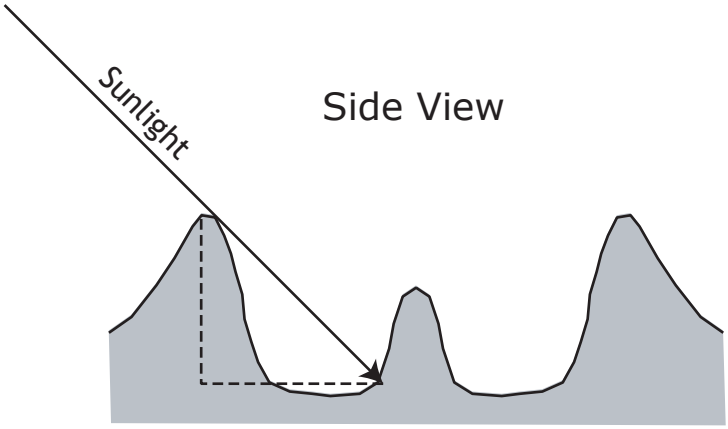
A blue filter allows _____ light through.

Additional Notes:

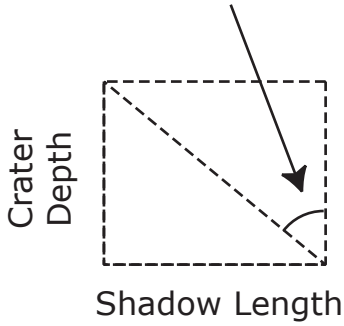
Crater Depths and Central Peak Heights

Top View





Sun angle:_____



To find the depth of the crater:

First, convert shadow length from pixels to kilometers

Shadow Length (pixels)		m per pixel		Shadow Length (m)
	x		=	

Additional information:

	Sun angle		Tangent of Sun angle
Tan (		) =	

To find crater depth:

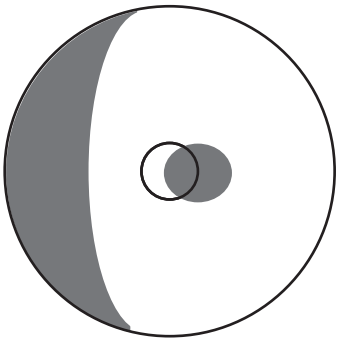
Shadow Length (m)		Tangent of Sun angle		Crater Depth (m)
	÷		=	

How many kilometers is this?

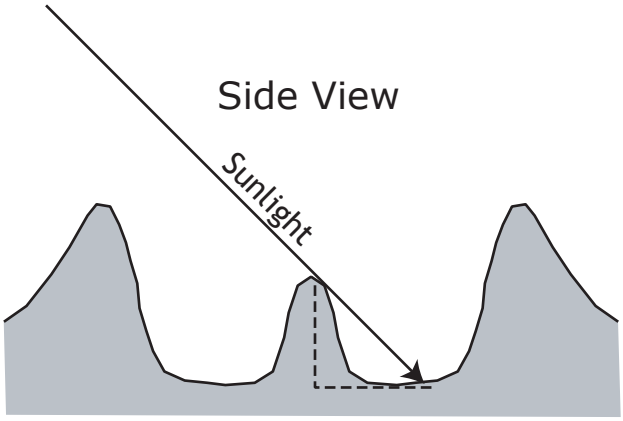
Crater Depth (meters)		meters per km		Crater Depth (km)
	÷		=	

Crater Depths and Central Peak Heights (Cont.)

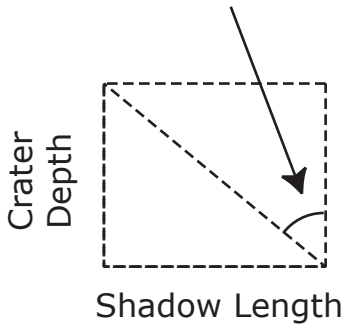
Top View



Side View



Sun angle:_____



To find the height of the central peak:

First, convert shadow length from pixels to kilometers

Shadow Length (pixels)		m per pixel		Shadow Length (m)
	x		=	

Additional information:

	Sun angle		Tangent of Sun angle
Tan (		) =	

To find the height of the central peak:

Shadow Length (m)		Tangent of Sun angle		Height of Peak (m)
	÷		=	

How many kilometers is this?

Height of Peak (meters)		meters per km		Height of Peak (km)
	÷		=	

Crater Counts and Relative Ages

Notes

New Mars + a billion years

Newest Region?

Left side

Right side

Both sides same age

Olympus Mons Erupts

Newest Region?

Left side

Right side

Both sides same age

Another billion years passes...

Newest Region?

Left side

Right side

Both sides same age

Additional Notes: