## Practice Quiz: Waves

- 1. On the wave diagram below...
  - a. Label a crest
- b. Label a trough c. Show and label a wavelength.



- 2. List all of the colors of light, in order of wavelength.
- 3. Does your list go from shortest to longest wavelength or from longest to shortest?
- 4. Rank these star colors from hottest to coolest (Hint: think about wavelengths).

White, Red, Yellow, Blue, Orange

- White isn't exactly a color of light. What is it? 5.
- 6. Black isn't exactly a color of light. What is it?
- 7. This describes a wave bouncing of a surface at the same angle at which it hit the surface.
  - a. Refraction b. Reflection c. Scattering
- 8. This describes a wave bouncing around randomly as it passes through some material.
  - a. Refraction b. Reflection c. Scattering
- 9. This describes light bending.
  - a. Refraction b. Reflection c. Scattering

a. red	b. gre	en	c. blue			
Why is	the sky	blue?				
Describ	e a tim	e when	the Sun look	ks red. Then explain	why it looks red	d at that time.
Which s	set of s	ound wa	aves has the D	highest pitch?	A	BCOP
Which s	set of so B	ound wa	aves has the D	highest frequency?		
Which s	set of s	ound wa	aves has the D	longest wavelength	?	
Draw a	n objec	t movin	g to the <u>left</u>	and giving off sound	waves.	
Draw a	n objec	t movin	g to the <u>righ</u>	<u>t</u> and giving off light	waves (ahead c	of the object and behind it).
If an ob	ject ha	s a red-s	shift, what d	oes that tell us abou	t the object?	
If an ob	ject ha	s a blue-	-shift, what o	does that tell us abo	ut the object?	
What w	ord go	es with	this definitio	on?		