Station 1 – Multiple Choice Practice

1. Colors seen when gasoline forms a thin film on water are a demonstration of:

a. refraction
b. diffraction
c. dispersion
d. interference

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

2. Diffraction occurs more easily in:

a. shorter wavelengths
b. X-rays.
c. larger wavelengths
d. mid-size wavelengths

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

3. Compared to its speed in air, the speed of light in water is
a. slower.
b. the same.
c. faster.

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

4. The explanation for a filled root beer mug looking fuller than it is involves
a. refraction.
b. reflection.
c. both
d. neither

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

5. You can hear noises a long distance away over water at night because
a. of lowered temperature.
b. water conducts sound better at night.
c. sound is reflected off water more efficiently at night.
d. of refraction of sound in air.

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

6. A mirage can occur
a. when cooler air is above hotter air.
b. when there's a layer of hot air close to the ground.
on a hot day.
c. atmospheric refraction
d. all of the above

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

7. The law of reflection says the angle of incidence_____ the angle of reflection.

a. is greater than
b. is less than
c. is equal to
d. is not related to

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

8. When forced to bend, visible light will spread into different colors is known as:

a. iridescence
b. dispersion
c. interference
d. diffraction

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

9. An imaginary line perpendicular to the surface is called the :

a. stranger
b. typical
c. mediocre
d. normal

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

10. Waves diffract the most when their wavelengths are
a. long.
b. short.
c. neither of the above

Explain why you chose your answer by providing evidence (i.e. I remembered seeing/reading an example of this….etc.)

11. Create 3 different level multiple choice questions (1 easy, 1 medium, 1 hard)

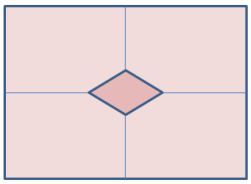
Station 2 – Question/Answer Word Sort

1. Take the cards out of the envelope and match up each question with its answer.
2. Write down at least 5 questions with their corresponding answers.
3. Explain at least 2 questions to a table partner.
4. Place cards back inside envelope.

Station 3 – Concept Questions

Station 4 – Thinking Map

Mini-Vocabulary Thinking Maps
Unit 7-Chapters 29, 30, & 31



Using 2 pieces of computer paper, fold in half each way, then fold over 1 inch of the inside corner. This will make 4 squares with a diamond in the middle.

Middle diamond = "Unit 7 Vocab". In each of those corner squares you will write the term, a simple definition, and a picture/example

From ch 29 there are 12 words
From ch 31 there are 2 words
From ch 30 there are 1 words

color and character are appreciated

Use the internet to look up good definitions, pictures, and examples

Reflection
Normal
Angle of incidence
Angle of reflection
Law of reflection
Virtual image
Real image (Section 30.2)
Diffuse reflection
Refraction
Mirage
Dispersion
Critical angle
Total internal reflection
Diffraction
iridescence