Physical Properties

**Properties of Matter**

1. What are physical properties? Give examples
2. What are chemical properties? Give examples
3. How are chemical and physical properties different from each other?
4. Why are these properties important to a forensic scientist?

**Mass vs Weight**

1. What is mass?
2. What is weight?
3. Which is dependent on the other?
4. How is mass determined? Include the instruments and process utilized.

**Density**

1. What is density? (Description and formula)
2. Why is density important?
3. Why is density considered to be an intensive property?
4. Why would the density of water be different from the density of ice?

**Refractive Index**

1. What is refraction?
2. Why is light refracted when it travels from one substance to another?
3. What is the refractive index of a substance? (description and equation)
4. What does a refractive index tell us about a substance?
5. What type of property is refractive index?
6. What two properties of a substance could cause its refractive index to change?
7. How are crystalline and amorphous solids different?
8. What is birefringence? What type of substance would exhibit this property?
9. What is dispersion? What property of glass makes it possible for dispersion to occur?