Quiz Answers

1. Name two things that can happen when light hits matter.
   - reflection
   - absorption

2. What do we call light that makes it past the matter?
   - transmitted light

3. What is one way that we can measure the amount of suspended solids in water using a light source and detector?
   - turbidity measurements

4. What are the two types of suspended solids in water, and what is the difference?
   - settling and non-settling solids
   - Settling solids are larger than non-settling solids.

5. What is it called when a material is microscopically suspended in another material?
   - a colloid

6. Why are materials microscopically suspended in water difficult to remove?
   - They are very small and usually have a negative surface charge.

7. What is a flocculant?
   - A flocculant is a chemical that can be added to water to remove non-settling solids.

8. Name two ways can we speed up the time it takes flocculants to work?
   - By increasing the amount of kinetic energy in a solution, which might be by adding mechanical kinetic energy (through stirring) or heat kinetic energy (through heating)