Up Periscope! Challenge
Your inspector robot needs to check whether there is a mold growing in a ceiling duct. Design and build a sensor attachment, then program your robot to indicate whether the metal duct is shiny or covered with black mold. In this challenge, you will solve an open-ended problem.

Rules and Procedure
1. You must design a sensor attachment to detect the color of the duct, located 18 inches off the table surface.
2. Your robot must give a clear indication of whether the duct is clean or not. Hint: What NXT-G Blocks might be helpful for communicating with human beings, who typically pay the most attention to sight and sound?
3. Beat the challenge by successfully indicating the presence or absence of mold!
   • The inspection area will be white if it is clean, or dark black if it is moldy.

Note: Diagrams are not drawn to scale