**Worksheet 2.7 Exploring the Scattering of Light**

1. Describe what happens to the light on the screen as more Dettol is added to the water?

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2.

I think the Dettol colours the water because the more Dettol that is added, the redder the light becomes.

 Do you think this student’s explanation is a good one? Why?

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3. What colours make up white light?

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4. If white light enters the tank of water and Dettol, and red light leaves the tank and arrives on the screen, what do you think happens to light inside the tank?

Water + Dettol

Bulb

Screen

White Light

Red Light

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5. What colours of light do you see when you look through the sides of the tank that aren’t facing the screen?

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6. Is your answer to question 4 correct on the basis of your observations? If not, then explain what happens to the light inside the tank of water and Dettol.