**Light and Shadow**

**Unit 3.4 Translucent Material**

Use these words to complete the sentences below.

visor translucent opaque blocked scatter shadow frosted goggles

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| Light cannot get through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ material. | Light is scattered by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ material. |
| A dark \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is made when light is blocked. | Light cannot pass when it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |
| Light is scattered by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ glass. | Translucent materials will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ light. |
| Wear \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to protect your eyes. | The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the helmet will protect your eyes. |

Answer the following questions:

1. Do translucent objects reflect light?

Translucent and Opaque objects reflect most of the light that falls on them. Whereas, transparent objects lets all the light pass through them.

1. Can you think of any practical uses for translucent materials? Why might we use them instead of opaque materials?

The fabric used for the lampshade is a good example. Translucent lampshades allow light to escape through the sides of the shade and spread light evenly across the room.

1. Write three differences between transclucent and transparent objects.

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| **Transparent Objects** | **Translucent Objects** |
| Allows all the light to pass through it.  | Allow some light or most of the light to pass through it  |
| Light passes straight through it  | Light gets scattered  |
| Do not reflect light  | They reflect light |

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| **No.** | **Self-Reflection Criteria**  | **Yes** | **No**  |
| 1 | I can talk about transparent, translucent and opaque materials. |  |  |
| 2 | I can draw a diagram to show how translucent material scatter light.  |  |  |