**Behaviour of Light at Surfaces** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

1. **Write down definitions in your own words for:**

Transparent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

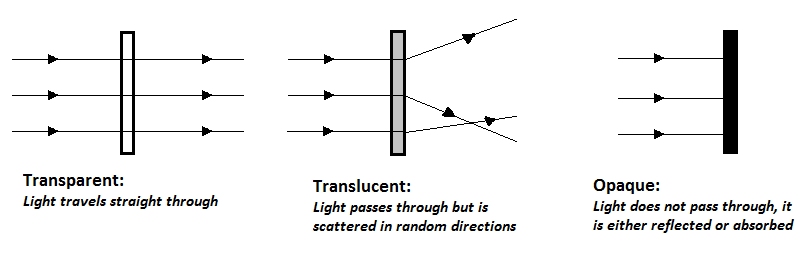
Translucent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Opaque: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Look around the room and classify as many objects as you can find into the following categories. You can continue this table on the back of this page.**

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| --- | --- | --- |
| **Transparent** | **Translucent** | **Opaque** |
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1. **Complete the following ray diagrams by showing what happens to the light as it hits each surface.**

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1. **Some jellyfish are transparent. How might this affect their ability to survive?**

1. **Why is frosted glass often used for bathroom windows instead of clear glass or a solid wall?**

**Homework: PICK ONE.**

1. Choose two materials from your daily life and take photos of them to bring to class. For each material, answer these q’s:
   1. Is the material transparent, translucent, or opaque? How could you confirm your decisions?
   2. Explain how the material’s interaction with light is related to its function.
2. Research a living organism (not jellyfish) that uses one of today’s concepts to help it survive or be better suited to its environment. Bring a photo and the results of your investigation to class and be prepared to share.