Name: _____ Date: _____

Window, Wax Paper, Wall: Who Lets Light Through?

Circle group

Light goes through some things. It does not go through others.

A window is clear. Light goes right through. You can see outside. Clear things are called transparent.

Wax paper is not clear. Light goes through, but things look blurry.

A wall is thick. Light cannot get through. Things that block all light are called opaque. They make dark shadows.

Try it with a flashlight. Use a cup, wax paper and a book.

Questions

1. What kind of thing is a window?

_____

_____

2. What happens when light hits wax paper?

_____

_____

3. What does a wall do to light?

_____

_____

4. What are things that block all light called?

_____

_____

5. Would a book make a dark shadow? Why?

_____

_____

Words to know

transparent: clear, so light goes right through
opaque: not clear, so light cannot go through
blurry: not sharp, hard to see clearly

block: to stop something from getting past
shadow: a dark shape made when light is blocked

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

Window, Wax Paper, Wall: Who Lets Light Through?

Triangle group

Light can pass through some things. It cannot pass through others.

A window is clear. Light goes right through, and you can see what is outside. Clear things are called transparent.

Wax paper is different. Light goes through, but you cannot see a clear picture. Everything looks blurry and soft. Things like this let some light in.

A wall is thick. Light cannot get through it. Things that block all the light are called opaque. They make dark shadows.

Try it with a flashlight. Hold up a clear cup, a sheet of wax paper and a book. See what each one does!

Questions

1. What kind of thing is a window?

_____

_____

2. What happens when light hits wax paper?

_____

_____

3. What does a wall do to light?

_____

_____

4. What are things that block all the light called?

_____

_____

5. Would a book make a dark shadow? How do you know?

_____

_____

Words to know

transparent: clear, so light goes right through
opaque: not clear, so light cannot go through
blurry: not sharp, hard to see clearly
block: to stop something from getting past
shadow: a dark shape made when light is blocked

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

Window, Wax Paper, Wall: Who Lets Light Through?

Square group

Light can travel through some materials, but other materials stop it completely.

A window is clear, so light passes straight through it and you can see everything outside. Materials like this are called transparent.

Wax paper is different. Light gets through it, but you cannot see a sharp picture on the other side, because everything looks blurry and soft. Wax paper lets some of the light in.

A wall is thick, so no light can get through. Materials that block all of the light are called opaque, and they make dark shadows.

You can test them yourself with a flashlight. Hold up a clear cup, a sheet of wax paper and a book, and notice what each one does to the beam.

Questions

1. What kind of material is a window, and why?

_____

_____

2. What happens to the picture when light goes through wax paper?

_____

_____

3. Why can no light get through a wall?

_____

_____

4. What word names materials that block all of the light?

_____

_____

5. Would a book make a dark shadow? What tells you so?

_____

_____

Words to know

transparent: clear, so light goes right through
opaque: not clear, so light cannot go through
blurry: not sharp, hard to see clearly
block: to stop something from getting past
shadow: a dark shape made when light is blocked

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

For the teacher: Window, Wax Paper, Wall: Who Lets Light Through?

Each student sheet carries a shape, not a level. The same topic and facts, written three ways.

Circle: Window, Wax Paper, Wall: Who Lets Light Through?

Easier · 73 words · Flesch-Kincaid grade 0.3

1. A clear thing, called transparent.
2. Light goes through, but things look blurry.
3. It blocks all the light.
4. Opaque.
5. Yes, because a book blocks light like a wall.

Triangle: Window, Wax Paper, Wall: Who Lets Light Through?

This passage · 102 words · Flesch-Kincaid grade 1.1

1. A clear thing, called transparent.
2. Light goes through, but things look blurry and soft.
3. It blocks all the light.
4. Opaque.
5. Yes, because a book blocks the light like a wall does.

Square: Window, Wax Paper, Wall: Who Lets Light Through?

Harder · 122 words · Flesch-Kincaid grade 5.2

1. Transparent, because light passes straight through it.
2. Everything looks blurry and soft.
3. A wall is thick and blocks all of the light.
4. Opaque.
5. Yes, because a book blocks light the way a wall does.