



Topic 1

Properties of Matter

Lesson 3 – Use Solids

Uses of Solids:

When building a house, each material has a purpose.

A purpose is the use of an object. Wood makes the frame of the walls and roof. Bricks might be used to keep out wind, heat, or cold air. If you use brick for the roof it might fall down! You can measure the materials to decide how much you need



Everyday Solids

People use solids every day. You use a solid cup when you drink. You use a solid plate when you eat. You play with solid toys.

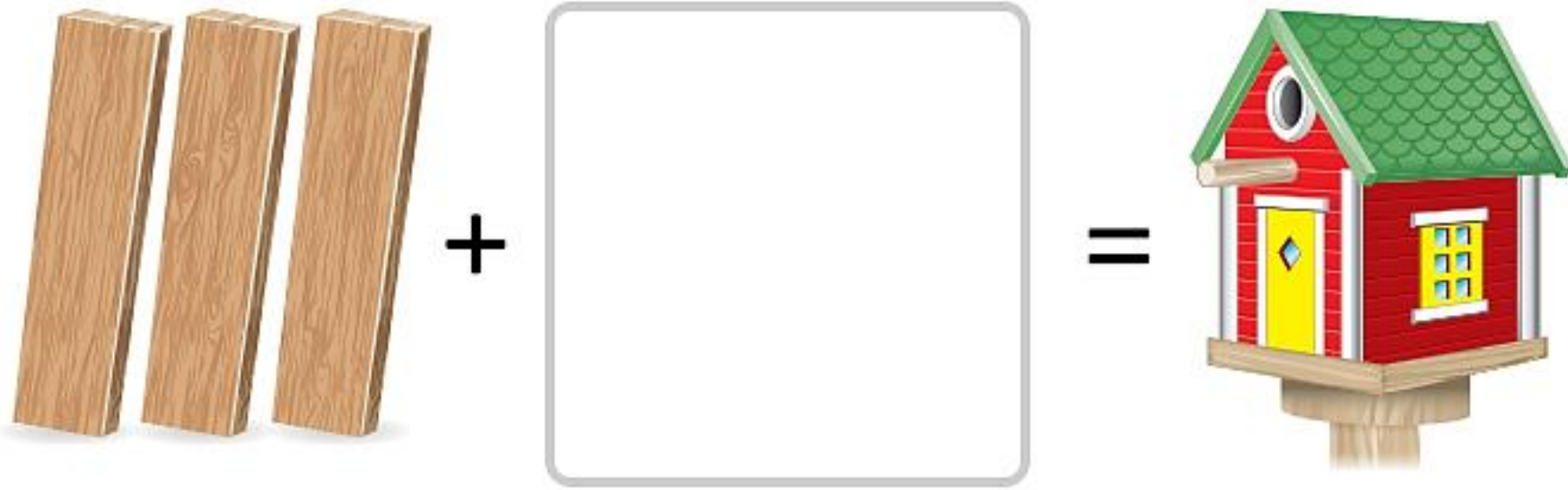
Solids come in many shapes and sizes. They can be different materials.

They can be **glass**, **metal**, **plastic**, or **concrete**.

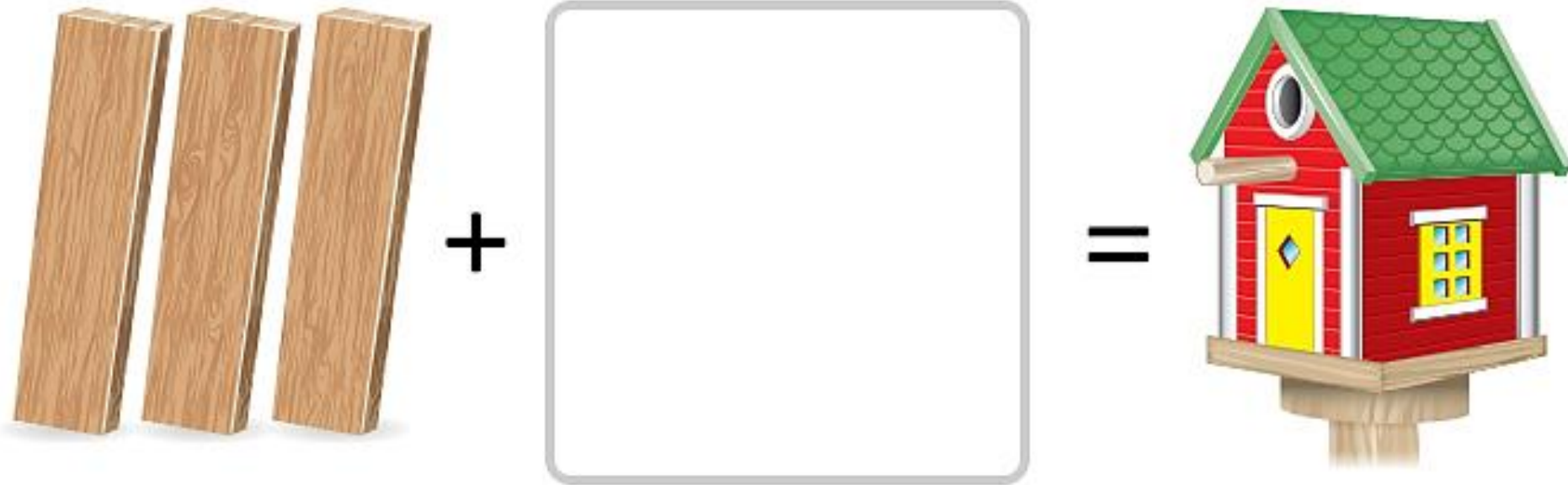
Sometimes solids are made of more than one material.



Sometimes, there is only one tool for a job. Observe the properties of the tools. Select the tool that is best for the job.



Choose the tool with the best properties for the job.



You have been asked to build a rocking chair. You will need different materials for the parts of the chair. You will need to use the best tools to build the chair. Some materials and tools will work better than others



Look at the table.

Which properties are useful to build the frame of the chair?



Materials	Properties
cotton	soft, flexible, lightweight
wood	hard, strong, floats
paint	blue, sticky
nails & screws	metal, strong, pointy
cloth	flexible, lightweight, soft

Think about the properties you listed.
Which materials would you choose to
build the chair?



Materials	Properties
cotton	soft, flexible, lightweight
wood	hard, strong, floats
paint	blue, sticky
nails & screws	metal, strong, pointy
cloth	flexible, lightweight, soft

Now, you will need to make the chair cushions.

Which properties are useful for the cushions?



Materials	Properties
cotton	soft, flexible, lightweight
wood	hard, strong, floats
paint	blue, sticky
nails & screws	metal, strong, pointy
cloth	flexible, lightweight, soft

Which materials would you choose for the cushions?



Materials	Properties
cotton	soft, flexible, lightweight
wood	hard, strong, floats
paint	blue, sticky
nails & screws	metal, strong, pointy
cloth	flexible, lightweight, soft

How do you decide what tools or materials to use for a job?

