

# Matter and Materials

Grades 1-3

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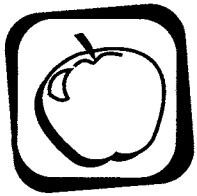
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# Objects Have Parts

Teacher Notes

Complex objects are made of many parts. For example:

- Machines are made of parts that each have a purpose
- Matter is made of molecules
- Mixtures are made of two or more substances

One of the guiding principles of science is that in order to understand a complex object, it sometimes helps to understand how the parts that make it up work. When teaching students about matter and materials, this concept will come in handy at many different levels:

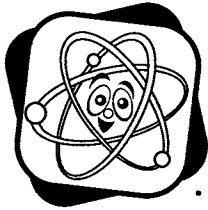
- If we understand that all matter is made up of molecules, we will understand how heating up and cooling down these molecules can change the matter.
- If we understand that objects are made of different materials, we will understand the importance of choosing materials with appropriate properties when building materials.

In this section, students are introduced to the idea that complex objects have parts, and that understanding these parts helps us understand the object. In later sections, this concept will be useful for understanding matter and materials in general.

## **Put It Together (page 10)**

This was designed with a foam glider in mind. These kits are inexpensive and reusable, and readily available.

One online source is eBay Stores. Go to [www.ebay.com](http://www.ebay.com) and search for “foam airplane”.



Name: \_\_\_\_\_

## Put It Together

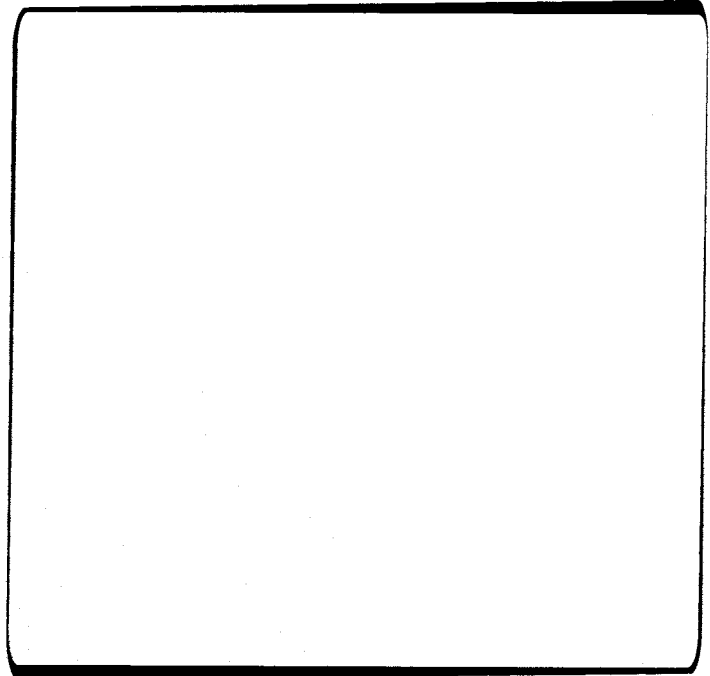
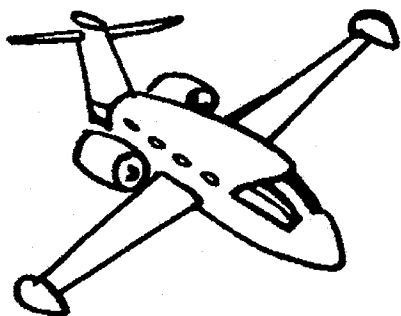
Objects are things. Can you make an object out of parts?



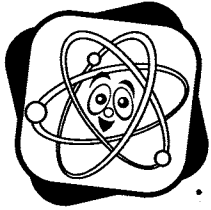
- the parts to make a glider
- a partner



1. Pick three parts. Draw a picture of each part on your worksheet. Guess what they do.
2. Put all the parts together.
3. What do you get? Draw it.
4. Does it fly? Try it!



Many things are made of smaller parts. Each part has its function.



Name: \_\_\_\_\_

# Put It Together

Worksheet

Draw a picture of the parts you chose:

#1

#2

#3



What do you think the parts do?

#1: \_\_\_\_\_

#2: \_\_\_\_\_

#3: \_\_\_\_\_

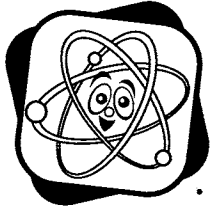


Draw a picture of all the parts put together:



This is a glider. How do the parts work together?

\_\_\_\_\_



## Looking for Parts

Lots of things are made of parts. Look around your classroom. What things do you see that are made of parts?



- objects from your classroom



1. In the first column, draw three objects you find in the classroom.
2. Take apart each object if you can.
3. In the second column, draw each part of the object you took apart.
4. Did you find an object that doesn't have any parts? Complete your worksheet.

