

Where do Plastics Come From?



Name _____






Phenomenon: Watch the phenomenon in the video. Ask three questions about what they see.

- 1.
- 2.
- 3.

Is the coverage on the watermelon made Synthetic or Natural? Give evidence for your claim.

Use the internet to research the Names and Applications of each type of plastic.

Container Sample	Letter Code - & Full name	Applications
Numeric Symbol	Examples: PVC - Polyvinyl Chloride,	Examples: paints, adhesives, electronic, others...
		
		

Procedure:

1. Using the items provided, create 7 tests that can be conducted on each type of plastic. These tests will help determine the properties of each plastic. Describe the tests here:
 - A.
 - B.
 - C.
 - D.

- E.
- F.
- G.

2. Record the response of each plastic on the table. At the top of each column, write the test type.
Test

Plastic #	A	B	C	D	E	F	G
1							
2							
3							
4							
5							
6							
7							

Use complete sentences to explain the following: What role does plastic play in our society? Explain the various properties and functions of plastic. Use examples to help explain. What are some of the advantages and disadvantages of using certain plastics over others?

Plastic number and name: _____

Prepare a 3-minute presentation that answers the following points. What is the name of the plastic? What physical properties were tested? How do the physical properties of this plastic make it a good one to use for applications?




Where do Plastics Come From? (Teacher Answer Sheet)





Name _____

Phenomenon: Watch the phenomenon in the video. Ask three questions about what they see.

- 1.
- 2.
- 3.

Was a synthetic or natural covering put on the watermelon? Use evidence to explain why.

Container Sample	Letter Code - & Full name	Applications
Numeric Symbol	Examples: PVC - Polyvinyl Chloride, others...	Examples: paints, adhesives, electronics, others.
	PET Polyethylene Terephthalate	Soft drink bottle, mineral water, fruit juice container, cooking oil container.
	HDPE - High-density polyethylene	Jugs for milk, leaning agents, laundry, detergents, bleaching shampoo, washing and shower soaps, picnic tables, plastic lumber, waste bins, park benches, bed liners,
	PVC - Polyvinyl chloride	Trays for sweets, fruit, plastic packing (bubble foil) and food foils to wrap the foodstuff

	LEDP -Low-density polyethylene	Shrink wraps, dry cleaner garment bags, squeezable bottles, bread packaging,
	PP - Polypropylene	Furniture, luggage, toys, bumpers, lining and external borders of cars, disposable diapers, pails, plastic bottle tops, margarine and yogurt containers, potato chip bags, straws, packing tape and rope
	PS - Polystyrene	Drinking cups, take-out "clamshell" food containers, egg cartons, plastic picnic cutlery, foam packaging
	Other -	Nylon, fiberglass, acrylic, polycarbonate

Information depends upon what tests are conducted. Below are listed possible tests.

Plastic #	Water float or sink	Alcohol float or sink	Paper clip/nail scratch?	Acetone test	Flexibility	Crease Color	Heat
1							
2							
3							
4							
5							

6							
7							

Plastic 7 is a mixed group of plastics that may have different results.

Paragraph: Ensure that the student answered the 3 questions.

Presentation: Ensure that the student answered the 3 questions.