

Desirable and Undesirable Changes

A. Fill in the Blanks

1. Changes that are useful to us and that we want to happen are called _____ changes.
2. The spoiling of food is an example of an _____ change.
3. A change can be classified as desirable or undesirable based on its _____ on us.
4. A flood is a natural but _____ change.
5. The ripening of a fruit is a _____ change because it makes the fruit sweet and edible.

B. Match the Following;

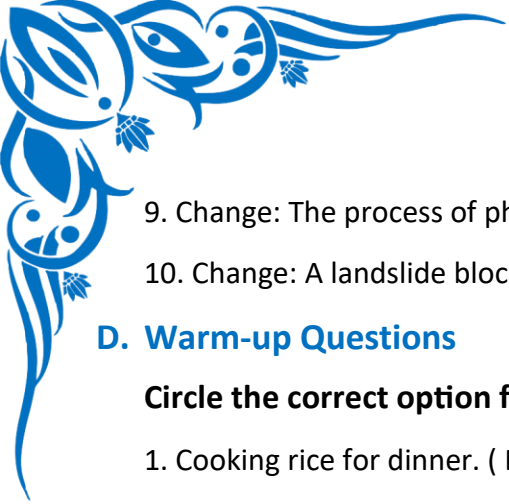
Match the change in Column A with its correct type in Column B.

Column A	Column B
1. Ripening of a mango	A. Undesirable Change
2. Breaking of a toy	B. Desirable Change
3. Souring of milk	
4. Formation of manure from waste	
5. An earthquake	

C. Practice Problems

Identify the following changes as desirable or undesirable. Give a brief reason for your answer.

1. Change: Digestion of food in your stomach. Type: _____ Reason: _____
2. Change: An earthquake destroying buildings. Type: _____ Reason: _____
3. Change: Baking a cake from batter. Type: _____ Reason: _____
4. Change: Melting of polar ice caps due to global warming. Type: _____ Reason: _____
5. Change: Germination of a seed into a seedling. Type: _____ Reason: _____
6. Change: A car getting a dent in an accident. Type: _____ Reason: _____
7. Change: Charging your mobile phone battery. Type: _____ Reason: _____
8. Change: The color of a new shirt fading after a few washes. Type: _____ Reason: _____



9. Change: The process of photosynthesis in plants. Type: _____ Reason:

10. Change: A landslide blocking a road. Type: _____ Reason:

D. Warm-up Questions

Circle the correct option for the following changes.

1. Cooking rice for dinner. (Desirable / Undesirable)
2. A glass plate falling from your hand and breaking. (Desirable / Undesirable)
3. A sapling growing into a big, shady tree. (Desirable / Undesirable)
4. Fresh milk turning sour in the summer. (Desirable / Undesirable)
5. Rusting of your new bicycle's chain. (Desirable / Undesirable)

E. Challenge Questions

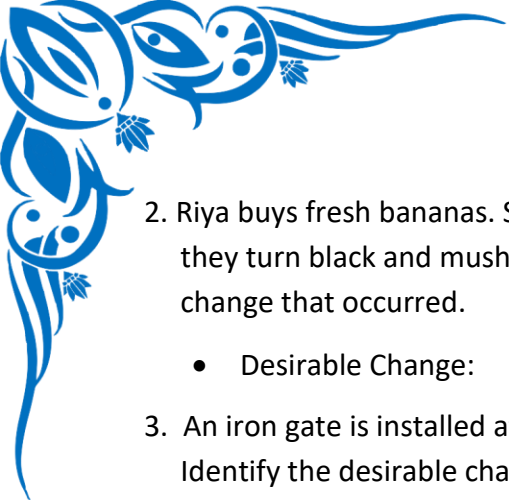
Some changes can be both desirable and undesirable depending on the situation. Explain both aspects for the following changes.

1. Change: Cutting down trees.
 - Why it can be Desirable:
 - Why it can be Undesirable:
2. Change: Heavy Rainfall.
 - Why it can be Desirable:
 - Why it can be Undesirable:
3. Change: Burning of Fuel (like petrol in a car).
 - Why it can be Desirable:
 - Why it can be Undesirable:
4. **Change:** Using pesticides on crops.
 - Why it can be Desirable:
 - Why it can be Undesirable:
5. **Change:** A forest fire.
 - Why it is usually Undesirable:
 - How it can sometimes be Desirable (in nature):

F. Word Problems & Application

Read the scenarios and answer the questions.

1. A farmer plants wheat seeds. For the next few months, he gets plenty of sunshine and just the right amount of rain. The wheat grows tall and healthy. Identify one desirable change and one potential undesirable change for the farmer.
 - Desirable Change:
 - Potential Undesirable Change:



2. Riya buys fresh bananas. She eats some right away. She forgets the rest on the counter for a week, and they turn black and mushy. Identify the desirable change (what she wanted) and the undesirable change that occurred.

- Desirable Change:

- Undesirable Change:

3. An iron gate is installed at the entrance of a school. To protect it, the workers apply a coat of paint. Identify the desirable change the paint brings and the undesirable change it prevents.

- Desirable Change:

- Undesirable Change it Prevents:

4. In a kitchen, a chef is cooking vegetables. This is a desirable change. Suddenly, the cooking oil catches fire. What kind of change is the fire in this context? Explain why.

- Type of Change:

- Explanation:

5. Our bodies are constantly undergoing changes. Healing of a wound is a desirable change. Name one undesirable change that can happen to our bodies.

- Undesirable Change:

G. True or False

1. All changes that occur in nature are desirable.

2. Rusting is a desirable change because it creates a new substance.

3. Building a house from bricks and cement is an undesirable change.

4. A change can sometimes be desirable for one person but undesirable for another.

5. The decay of dead plants to form manure is an undesirable change.
