**24. The Three Forms of Water**

P6 - Environment and Living: Energy and Environment

Learning objectives:

* Observe and compare the characteristic of water in its different forms
* Learn about the changes in forms of water, and understand that these are reversible changes

The three forms of matter

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | Solid form | Liquid form | Gaseous form |
| Intermolecular forces | Strong / Weak | Strong / Weak | Strong / Weak |
| Molecular arrangement | Packed / Loose | Packed / Loose | Packed / Loose |
| Can molecules move freely? | Yes / No | Yes / No | Yes / No |



The three forms of water

|  |  |  |  |
| --- | --- | --- | --- |
|  | Ice | Water | Steam |
| Shape | Fixed / Not fixed | Fixed / Not fixed | Fixed / Not fixed |
| Can it flow freely? | Yes / No | Yes / No | Yes / No |
| Forms | Solid / Liquid / Gas | Solid / Liquid / Gas | Solid / Liquid / Gas |

Changes in forms of water

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1. After putting water in the freezer for a few hours, what will happen?

1. By heating ice, what will it become?

1. If steam cools down, what will it become?

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Learning objectives:

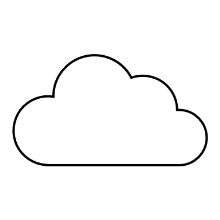
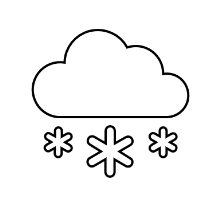
* Learn about the changes in forms of water, and understand that these are reversible changes
* Learn about how water changes form and the corresponding natural phenomena of each form



A million transformations of water

The form of water will change according to temperature, forming various natural phenomena. Fill in the correct number in the ( ) to complete the diagram below to learn more about the transformation of water in nature.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Frost | 2. Condensation | 3. Hail | 4. Fog | 5. Steam |
| 6. Snow | 7. Rain | 8. Evaporation | 9. Ice | 10. Clouds |
| 11. Freezing | 12. Melting | 13. Dew |  |  |



Cool

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Heat

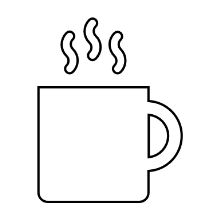
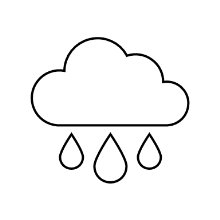
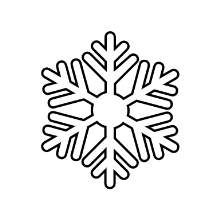
（ ）

Cool

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Heat

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