**Answer Key**

**Changes in State**

- **Gas** → **Liquid** → **Solid**
- **Solid** → **Liquid** → **Gas**
- **Solid** → **Evaporate** → **Gas**
- **Liquid** → **Melt** → **Solid**

**Variables** = butter, egg, batter, cake

```python
>>> if butter is (melted)
    then Reversible

>>> if egg is (cooked)
    then Irreversible

>>> if batter is (placed_in_the_oven)
    then Irreversible

>>> if cake is (frozen_for_later)
    then Reversible
```

**Physical and Chemical Changes in Substances**

- Rusting of a nail = 0
- Chopping wood = 1
- Chewing food = 1
- Burning wood = 0
- Bending a nail = 1
- Brewing Tea = 0

**Oobleck at Home!**

- **Gas**
  - Has a definite volume, takes the shape of its container.

- **Solid**
  - Has a definite volume and maintains its shape.

- **Liquid**
  - Has no definite shape or volume on its own, takes shape and volume of container.

**Coding Processes**

```python
Variable = paper

>>> if paper is (cut)
    then Irreversible

>>> else if paper is (folded)
    then Reversible

>>> else if paper is (burned)
    then Irreversible

>>> else if paper is (drawn_on_with_markers)
    then Irreversible
```