

## 1. Describe the movement of the melted wax on sloped and flat parts

- You should have observed differences in the shape of the wax and in the way it flowed and cooled.
- **Flat:** Spread out, took longer to cool.
- **Sloped:** Thin line, cooled faster because it was narrower. Pooled at flat part.

## 2. Describe the texture of the cooled wax.

- The cooled wax has a ropy texture.
- Not as lustrous (shiny).



### 3. Behavior of cooling wax on waxed paper vs. water?

- The wax cooled more quickly in the water. The wax in the water is more bulbous. The wax in the water is shinier. The wax in the water is smoother, although has more surfaces. The wax in the water stayed clumped together whereas the wax on the paper spread out.

### 4. How does lava form rock?

- Like magma, lava is molten (liquid) rock.
- When the lava cools, it becomes solid, forming a rock.

### 5. How do you think volcanic mountains and volcanic islands form?

- As lava is erupted from a volcano, it cools, forming layers of rock that become the volcano.
- This happens for both volcanic mountains and islands: subsequent eruptions or oozing of lava form more and more of the volcano.

### 6. Under what circumstances do you think lava flows into the ocean?

- Lava can flow into the ocean as runoff from land.
- Lava can erupt into the ocean along undersea ridges in the ocean floor.

## 7. What happens to lava when it flows into the ocean or erupts on onto the ocean floor?

- The lava cools very quickly.
- This makes a formation called pillow lava.
- [Video 1](#)
- [Video 2](#)



## 8. Figure 11.11: describe and connect

- The lava in this picture is forming on a flat surface, like we did in the first part of our lab. The ropy texture comes from: lava pushing against it and lava moving underneath the cooled lava.

## 9. Figure 11.12: Describe and connect

- The lava in this picture is forming a ropy texture on a flat surface. It is also spilling over into ocean water, like what we did in the second half of our lab. The lava is likely cooling very quickly, forming pillow lava.