

Snowflakes and Chaos

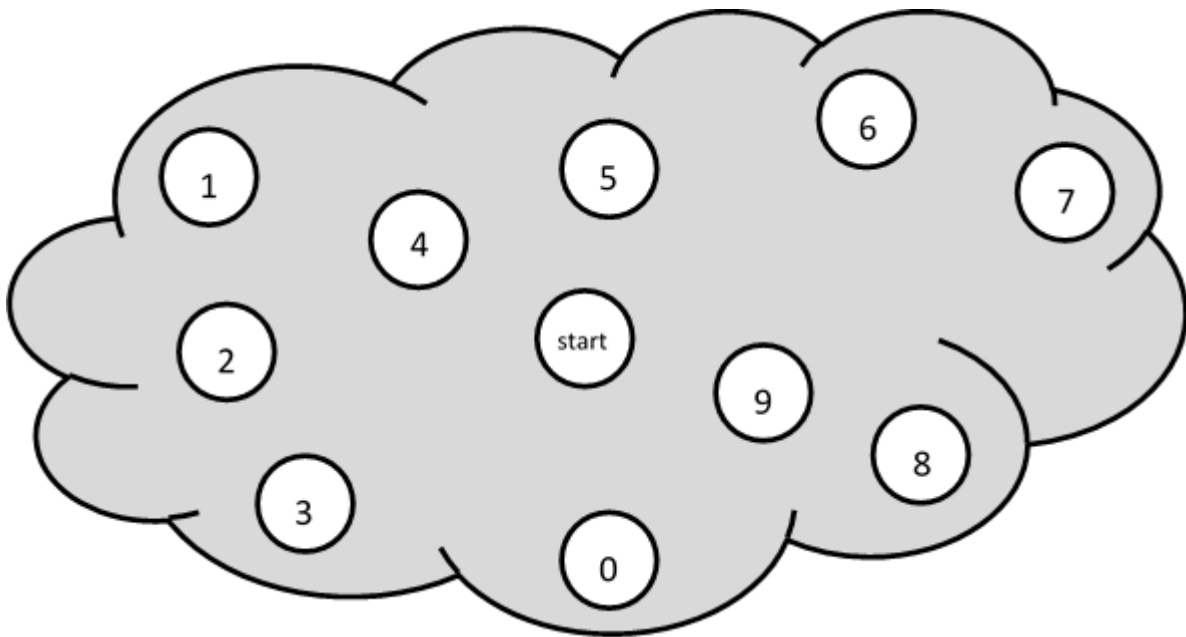
Questions

- ❄ *How do snowflakes form?*
- ❄ *Is each snowflake unique?*



Procedure

Your teacher will show some slides about snowflakes. After learning a bit about snowflakes, you will create your own. Each student makes a snowflake, but you may have to share some materials. Follow the instructions from the slide show.



Show your snowflake's journey by drawing arrows in the cloud above. It should change position three times before falling to the ground.

This table shows how the snowflake will grow at each location in the cloud.

Roll	Pattern of Crystal Growth
0	No growth
1	Straight ahead (length of one)
2	Branch 60 degrees left and right (lengths of one)
3	Straight ahead (length of one) and Branch 60 degrees left and right (lengths of one)
4	Straight ahead (length of two)
5	Branch 60 degrees left and right (lengths of two)
6	Straight ahead (length of two) and Branch 60 degrees left and right (lengths of two)
7	Straight ahead (length of one) and Branch 60 degrees left and right (lengths of two)
8	Straight ahead (length of two) and Branch 60 degrees left and right (lengths of one)
9	Straight ahead (length of three)

Compare other snowflakes to yours:

same	different

