

How are crystals formed?

Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true. Write your answers in the spaces provided.

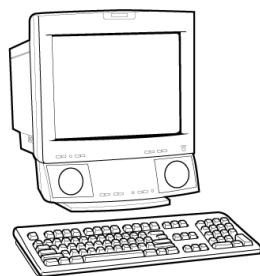
- _____ 1. The shapes of salt crystals are all different.
- _____ 2. Crystals can be grown by evaporating the solvent from a solution.
- _____ 3. Natural crystals can be made flawless.
- _____ 4. All crystals of the same substance have the same shape.
- _____ 5. The particles making up a crystal are arranged in a pattern.
- _____ 6. Synthetic crystals cannot be grown to be a particular size.
- _____ 7. Computer circuit boards use silicon crystals.
- _____ 8. A saturated solution of copper sulfate can be separated by evaporation.
- _____ 9. Synthetic diamonds can be used in medical instruments because they corrode.
- _____ 10. Once a supersaturated sodium acetate solution is heated, excess crystals can be “seeded,” causing them to settle on the bottom.

Skill Challenge

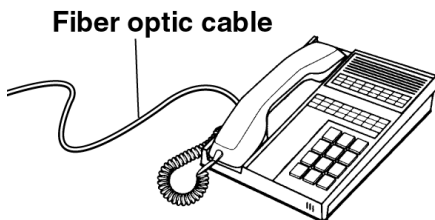
Skills: *identifying, relating*

Write the kind of synthetic crystal that could be used in each of the technological devices shown below.

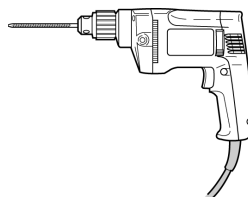
1.



2.



3.



4.



1. _____
2. _____
3. _____
4. _____

Answer Key

How are crystals formed?

Lesson Review

1. the same 2. true 3. Synthetic (or Human-made)
4. true 5. true 6. can 7. true 8. true 9. do not
corrode 10. cooled

Skill Challenge

1. silicon 2. sodium chloride or potassium chloride
3. synthetic diamond (carbon) 4. silicon