



# Science Starters

Quarter 3

Week 1

Watch the [VIDEO](#) to help you answer these questions.



**TUES, 1/5**  
**Icy Science**

1. What is the correct formula for salt?  
A.  $\text{NaCl}_2$       B.  $\text{Na}_2\text{Cl}_2$       C.  $\text{NaCl}$
2. What is the freezing point of pure water?  
A.  $0^\circ\text{F}$       B.  $32^\circ\text{F}$       C.  $100^\circ\text{F}$
3. Does water turning into ice involve an increase or decrease in energy?
4. How does sodium chloride “melt” ice?  
A. It breaks apart the water molecules.  
B. It increases the freezing point of water.  
C. It decreases the freezing point of water.
5. At what temperature does sodium chloride stop working?  
A.  $-16^\circ\text{F}$       B.  $0^\circ\text{F}$       C.  $16^\circ\text{F}$
6. What are some environmental concerns with using any type of chlorides? List at least one!



← Watch the [VIDEO](#) to help you answer these questions.

**WEDS, 1/6**  
**Chemistry of Ice**

1. True or False? Water is the only natural substance found on Earth in solid, liquid, and gas states.
2. What happens to the density of steel as it turns from a liquid to a solid?  
A. Increases because its volume decreases  
B. Decreases because its volume increases  
C. It does not change
3. What happens to the density of ice as it turns from a liquid to a solid?  
A. Increases because its volume decreases  
B. Decreases because its volume increases  
C. It does not change
4. What type of bond forms between hydrogen and oxygen atoms to form water?      A. Ionic      B. Covalent      C. Metallic
5. What happens to the energy level in water when the temperature drops?      A. Increase      B. Decreases      C. Does not change

$$D = \frac{m}{V}$$



**Click the movie icon to watch the video & then answer these questions.**

**THURS, 1/7  
Snownado**

1. Where did this snownado occur?  
A. Siberia                      B. Alaska                      C. Canada
2. What else are snownados called?  
A. White devil              B. Snow devil              C. White Tornado
3. What is causing the updraft?  
A. The white snow reflects heat which travels up.  
B. The dark rocks & trees absorb the heat which travels upwards.  
C. The sun heats the water which causes moisture to travel upwards.
4. What do we call the heat from the sun?  
A. Solar radiation              B. Solar convection              C. Solar thermals

# Can you complete the analogies below?

**FRI, 1/8**  
**Science Analogies**

1. **Positive : Proton :: \_\_\_\_\_ : Electron.**
2. **Femur : Leg :: Humerus : \_\_\_\_\_.**
3. **Star : Constellation :: Cell : \_\_\_\_\_.**
4. **Bilateral: Human:: \_\_\_\_\_ : Cnidarian.**
5. **Two : House fly :: \_\_\_\_\_ : Butterfly.**
6. **SpongeBob : Pineapple :: Patrick : \_\_\_\_\_.**

