

**STEM**  
*sports*<sup>®</sup>

science • technology  
engineering • math • sports

## **STEM Hockey**

Module 3.0

Playing on Ice

**GRADES 6<sup>th</sup> – 8<sup>th</sup>**



Module  
**3.0**

GRADES  
**6-8**

## What Do You Need?

### Supplies Provided

[Worksheets](#)

### Materials Needed

Pencils

*Optional yet recommended:  
Ice Rink/Platform*



## Test Your Knowledge

Have your students take this lesson's assessment prior to engaging by visiting:

<https://stemsports.com/assessments/>.

If you have limited digital capability, please email [Info@STEMSports.com](mailto:Info@STEMSports.com) to access the Assessment & Key.



## Fun Fact

The layer of ice in an NHL rink is approximately three-quarters of an inch thick and is kept at a temperature of -9 degrees Celsius or 16 degrees Fahrenheit.

# Engage

What do you think of when you see ice? Have you ever walked or skated on ice?



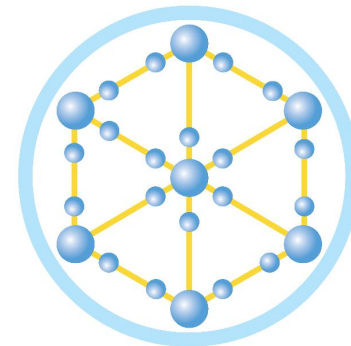
# Explore



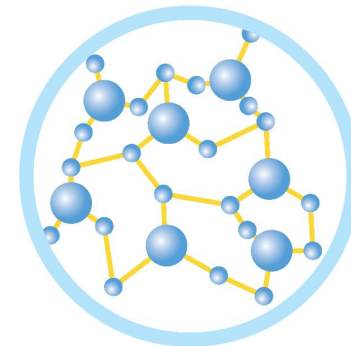
What type of reaction is occurring between the skate and the ice?

# Explain

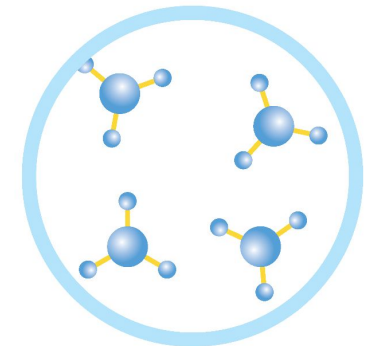
Learn about key terms:  
Molecule and Molecular  
Structure.



SOLID



LIQUID



GAS

# Elaborate

Using the [worksheet](#) as a guide, create a diagram that demonstrates the change from a gas, to liquid, to a solid.



# Evaluate

Using the [worksheet](#) as a guide, create a scale model hockey rink that shows the transformation of heat before, during, and after a hockey game.



## What Did You Learn?

Have your students retake this lesson's assessment to effectively evaluate their comprehension by visiting:

<https://stemsports.com/assessments/>.

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**Extend**

## **Challenge Yourself!**

Research the properties and functions of a Zamboni.



# What is your Dream Job?

## STEM Jobs in Sports

- Ice Technician
- Zamboni Mechanic & Operator
- Ice Crew
- Hockey Skating Coach
- Operations Coordinator, Women's Ice Hockey

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