

# **DELRAN TOWNSHIP SCHOOL DISTRICT**

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## **NJASK 4th Grade and 8th Grade NJASK Testing Results 2015-2016**

November 2016 Presentation on SPRING 2016 Data

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# What does NJASK Science measure?

The science test measures fourth and eighth grade students' ability to recall information and to solve problems by applying science concepts. The science test assesses knowledge and application skills in three clusters; each cluster contains multiple choice items and constructed-response items.



# Sample NJASK Science Questions

Grade 4

## Sample Multiple-Choice Question

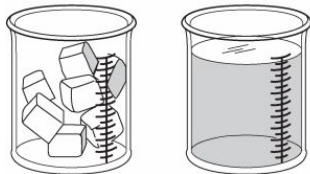
The sample question below will show you what the questions are like and how to mark your answers. For each multiple-choice question, select the best answer and fill in the circle next to your choice. Make sure you fill in the correct circle.

Example:

Which of the following is a way that people directly affect the environment?

- playing soccer
- dumping trash
- flying a kite
- walking to school

Victor has two glasses. One glass is filled with ice cubes and the other is filled with water. Give three ways the ice and water are different.



The ice cubes are colder than the water.

The water is liquid and the ice cubes are solid.

The water fills more of the glass than the ice cubes.

Grade 8

Which of the following signs can not be evidence of a chemical change?



- A. Evolution of gas bubbles with the formation of a new substance.
- B. Change in the color of the substance with the formation of a substance that has different properties.
- C. Change in the physical state of the substance without the formation of a new substance
- D. Evolution of energy in the form of light, heat or electricity

There are some places on the Earth that are very cold. During winters, the lake water in these places freezes whereas it gets so hot in the summers that the water level of the lake decreases. The decrease in the water level is due to evaporation

Write the three states of water involved in the above scenario.

Answer: \_\_\_\_\_

\_\_\_\_\_

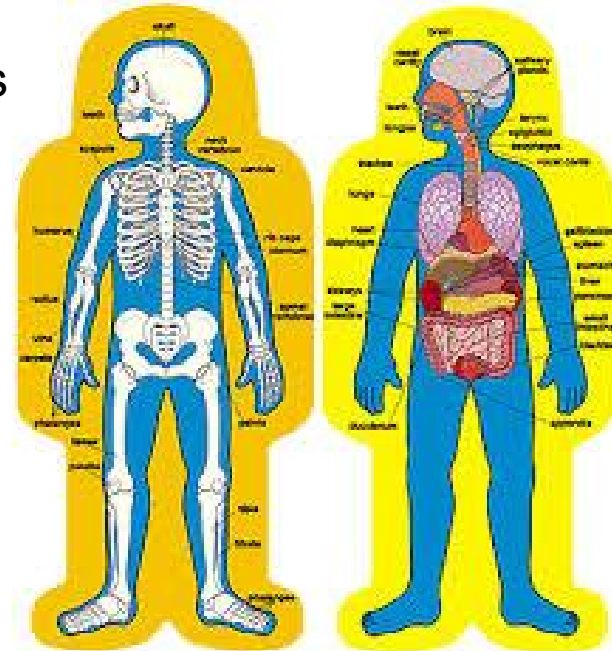
Compare the motion of particles in the above mentioned three states of water.

Answer: \_\_\_\_\_

\_\_\_\_\_

# Life Science (NJSL-S)

- Matter, Energy, and Organization in Living Systems
- Diversity and Biological Evolution
- Reproduction and Heredity
- Natural Systems and Interactions
- Human Interactions and Impact



# Earth Science (NJSL-S)

- Earth's Properties and Materials
- Atmosphere and Weather
- Processes that Shape the Earth
- How We Study the Earth
- Earth, Moon, Sun System
- Solar System
- Stars
- Galaxies and Universe



# Physical Science (NJSLS-S)

- Structure and Properties of Matter
- Chemical Reactions
- Motion and Forces
- Energy Transformations



# Analyzing the Testing Results

The results of standardized testing are to identify strengths and weaknesses in our educational programs. The process leads to improved instruction, as progress is made toward the new implementation of the new standards across all content areas and grade levels. These results are used to:

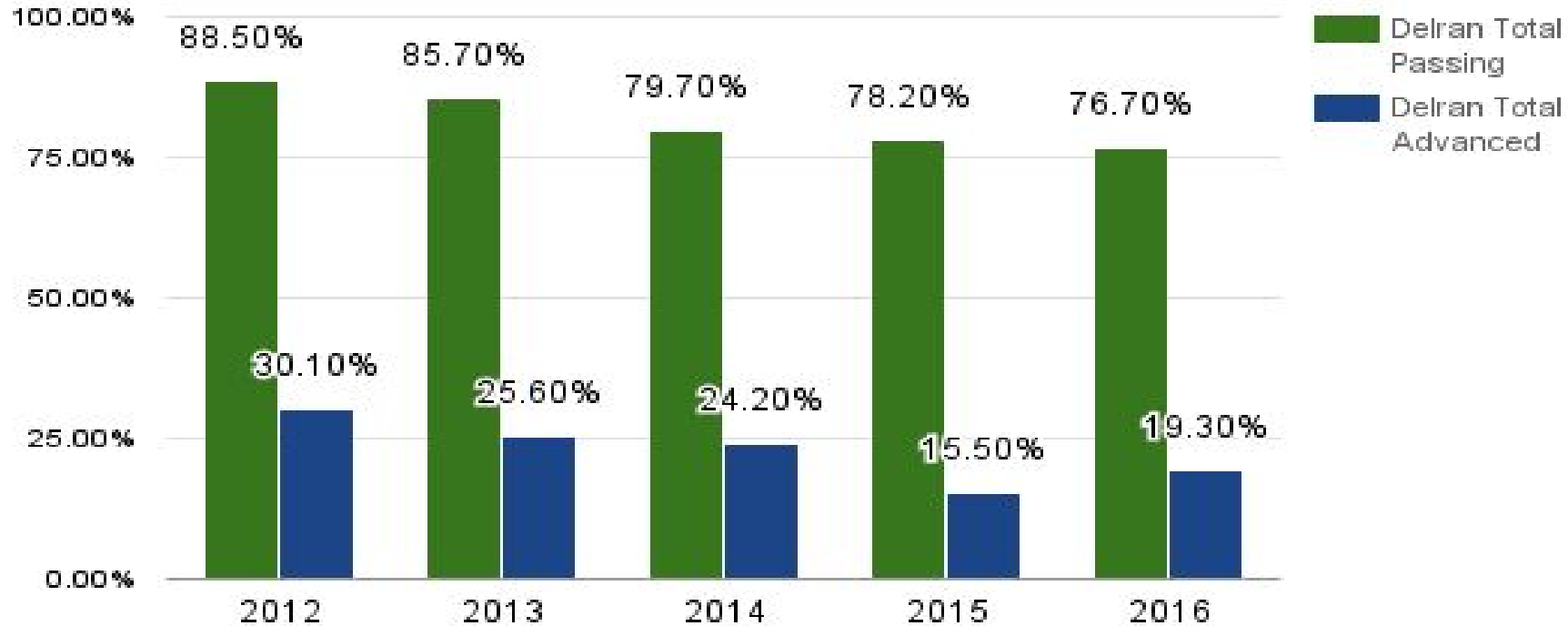
1. Identify those students who may need instructional support in any of the content areas;
2. Identify strengths and weaknesses in educational programs;
3. Improve teaching and learning.

# Grade 4 NJASK Delran Township NJASK Comparison 2012 vs. 2016

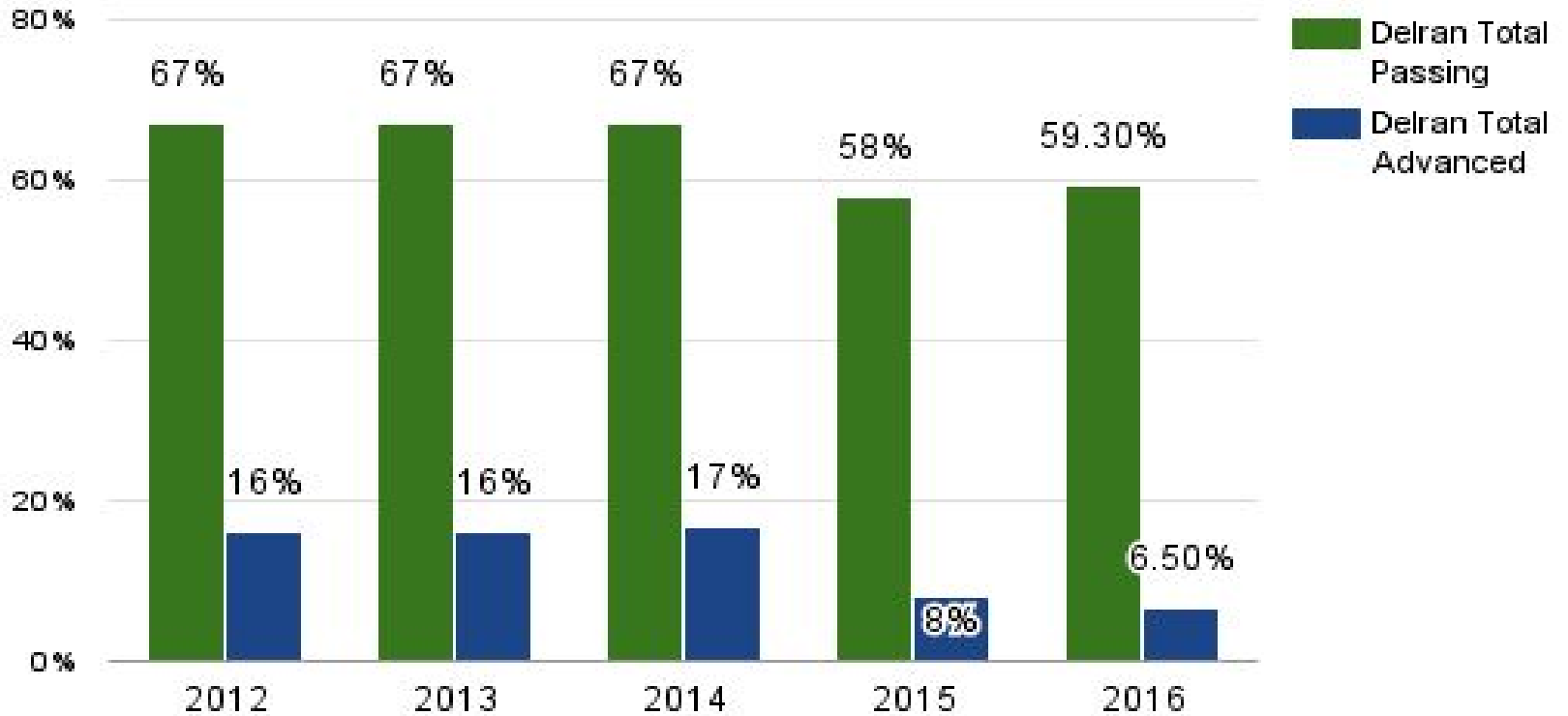




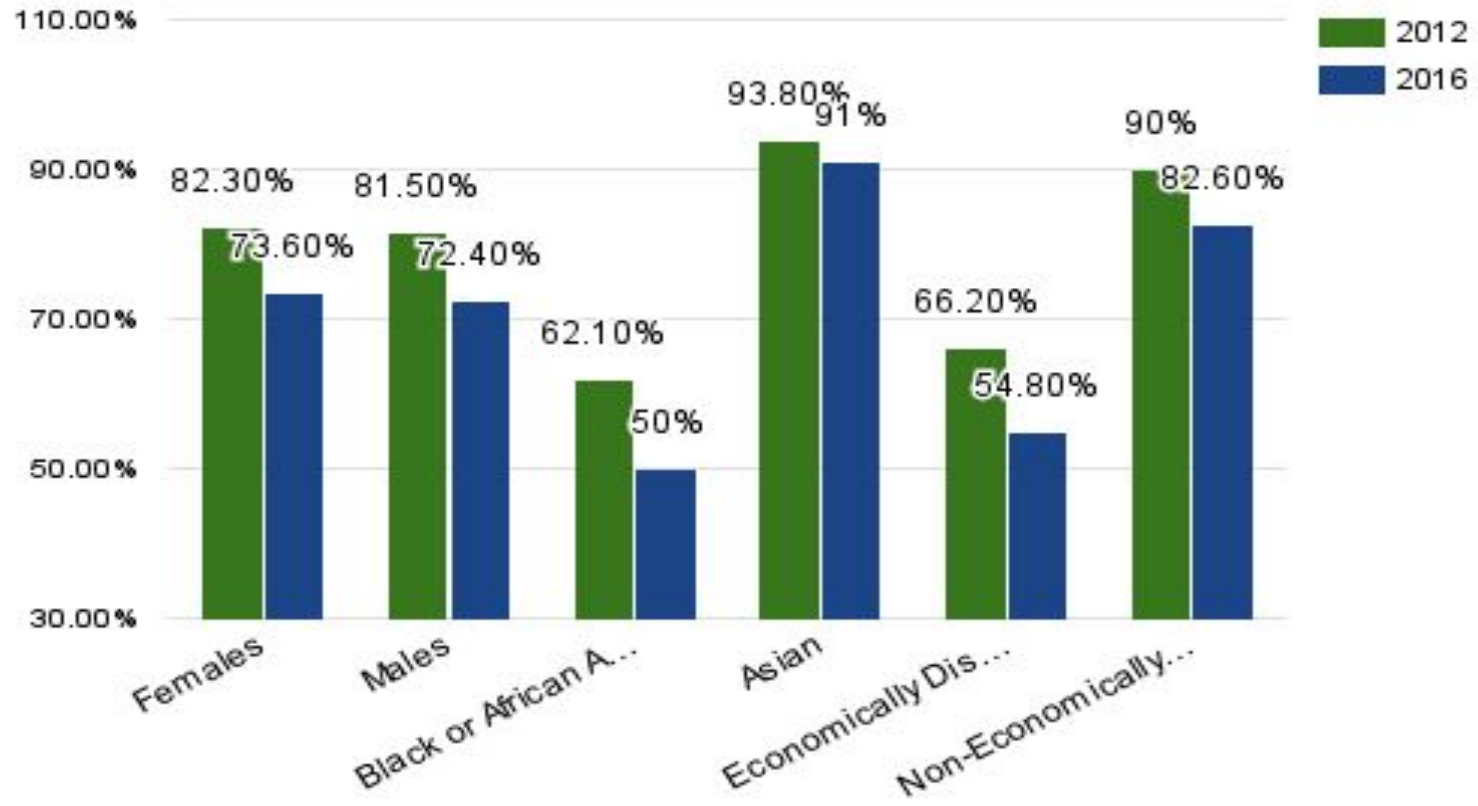
# Grade 8 NJASK Delran Township NJASK Comparison 2012 vs. 2016



# Delran Township End-of-Course Biology Testing Comparison 2012 vs. 2016



# Statewide NJASK Comparison 2012 vs. 2016

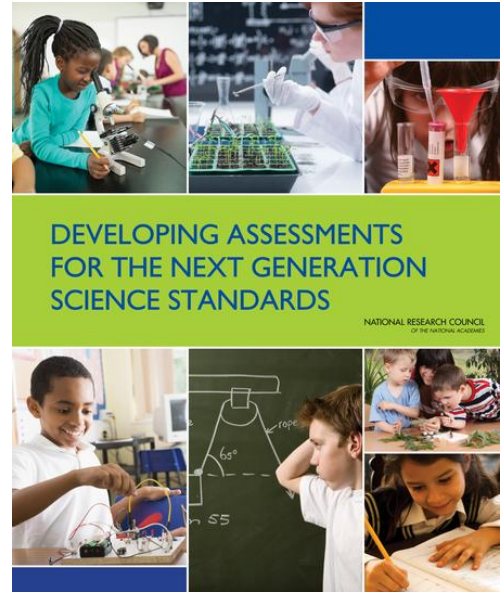


# NJSLS (NGSS Science Standards) Assessment

May 2017, the tests will be paper/pencil

- NJBCT- based on NGSS
- NJASK8- based on NGSS
- NJASK4- based on 2009 standards

In May 2018, the test will be a “PARCC like” computer based assessment in Grades 4, 8 and Biology.



# Our Next Steps

- Comparison of Delran Township NJASK 4th grade, 8th Grade, &
- Biology End-of-Course Exam Subgroup Data Analysis
- Analyze and share individual student testing data and share with teachers and administration
- Continued professional development for staff

