

Hutchinson Public Schools Board Results Monitoring Report

RE: Monitoring Report on **R-2 Science**
DATE:
FROM: Dr. Shelly Kiblinger, Superintendent; Cindy Coopriker, Ex Director of Student Learning

BOARD FOCUS: Science State Assessment

Attached is a Monitoring Results Report from staff regarding R-2 Science.

At this meeting, the board is being asked to approve an accurate report of progress on R-2 Science.

Monitoring Report Response Form: Results Policy

Monitoring Focus: When fully implemented, the board's focus will be on all three of the following, however, in the initial stages of implementation, only the first, or first and second elements will be the focus:

X **Reasonable Interpretation**

The staff provided an interpretation of the policy, including recommended indicators and provided baseline data.

X **Targets**

The staff provided recommended targets for continuous improvement, based on baseline data.

 Monitoring Progress

Targets had been established previously, and staff members provided data outlining progress.

Disposition of the Board: The board reviewed the monitoring report of this policy and makes the following conclusions:

The board accepts the report with the following commendations and opportunities for improvement:

The board commends the organization and the superintendent for the following areas:

The board sees opportunity for improvement in the following areas:

Board President: _____ *Date:* _____

Superintendent: _____ *Date:* _____

R 2 Policy:

Students annually gain a minimum of one year's growth in the following core academics:

Literacy
Math
Science
Social Studies

Science:

Interpretation: *Across all grade levels, students must develop an understanding of the nature of scientific knowledge. Students will learn through opportunities which integrate reading, writing, and mathematics into real world scientific situations.*

Board Approved R 2 Science

1. Kansas State Assessment Grades 4, 7, 11

The Kansas Assessment Program, a program of the Kansas State Board of Education, is mandated by the Kansas State Legislature. In addition, the Science is a part of the federal elementary and secondary education legislation. The science assessment will not completely change over to the Next Gen Standards until 2016-2017 school year. The assessment measures students' understanding using:

- Right answer
- Sort items
- Create graphs
- Label pictures

Performance Levels (This will be the last year for these levels.)

Level 5 Exemplary
Level 4 Exceeds Standards
Level 3 Meets Standards
Level 2 Approaches Standards
Level 1 Academic Warning

2. ACT - High school students average ACT score in science

The ACT is a curriculum- and standards-based educational and career assessment that measures students' academic readiness for college. Test scores reflect what students have learned through high school and provide colleges and universities with information for recruiting, advising, placement, and retention. Normally, about 40% of Hutchinson High students take the ACT.

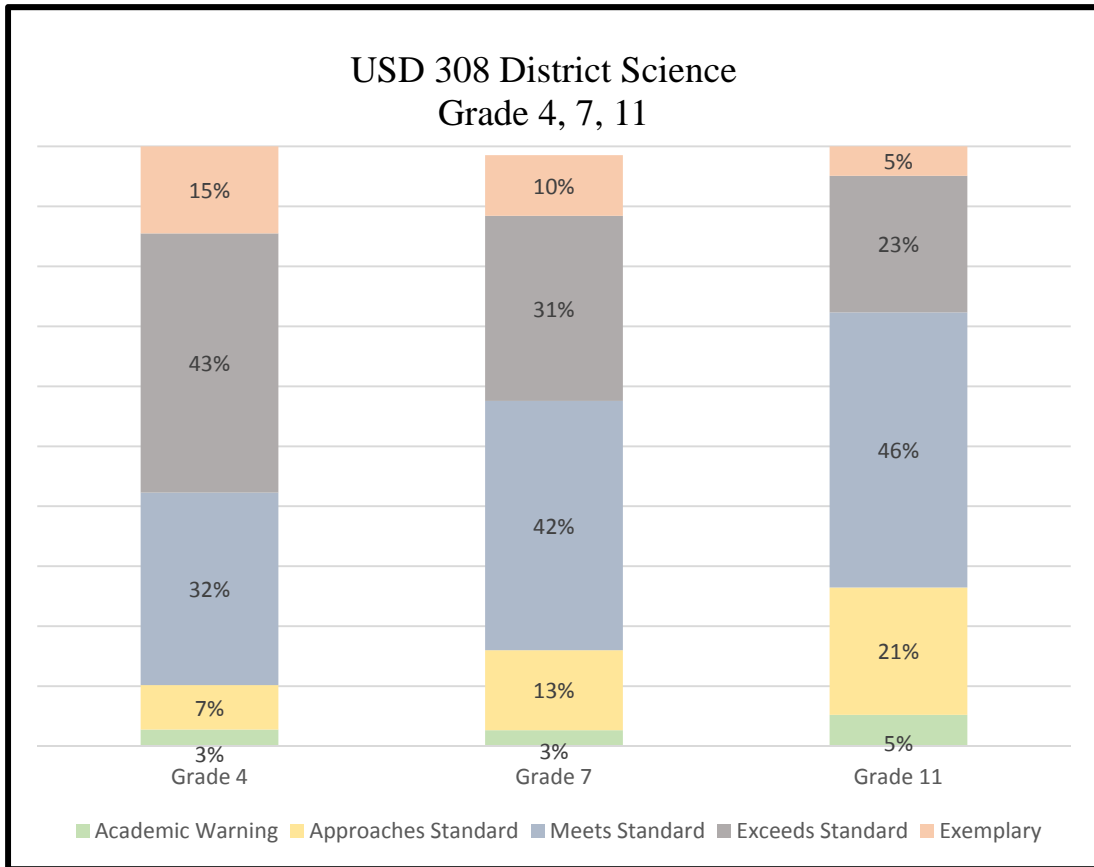
ACT - High school students meeting ACT college readiness benchmarks in science

A score at or above the ACT College Readiness Benchmark part of the ACT assessment indicates about a 50% chance of obtaining a B or higher, or about a 75% chance of obtaining a C or higher in the corresponding first-year college course.

Kansas State Science Assessment Grades 4, 7, 11 2014-2015

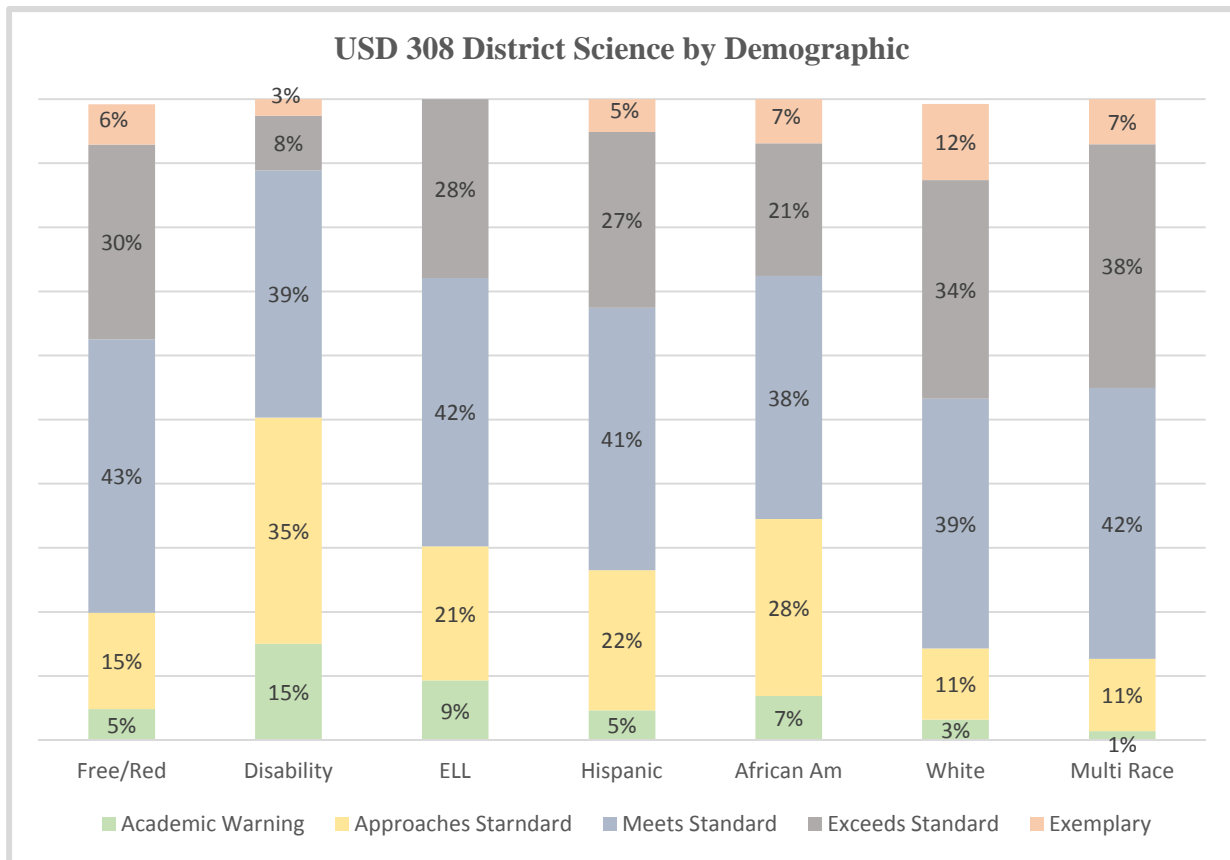
Performance Level	Grade 4	Grade 7	Grade 11
Exemplary	15%	10%	5%
Exceeds Standard	43%	31%	23%
Meets Standard	32%	42%	46%
Approaches Standard	7%	13%	21%
Academic Warning	3%	3%	5%

n= 324 n= 337 n= 325



Science Demographics Grades 4, 7, 11

Performance Level	Free/Red	Disability	ELL	Hispanic	African Am	White	Multi Race
Exemplary	6%	3%	0%	5%	7%	12%	7%
Exceeds Standard	30%	8%	28%	27%	21%	34%	38%
Meets Standard	43%	39%	42%	41%	38%	39%	42%
Approaches Standard	15%	35%	21%	22%	28%	11%	11%
Academic Warning	5%	15%	9%	5%	7%	3%	1%



Average Science ACT Scores 2014-2015

Total Tested			Science		
Grad Year	District	State	District	State	National
2014	145	23,924	21.9	21.8	20.8
2015	182	23,708	21.9	21.8	20.9

Percent of Students Ready for College-Level Coursework Science ACT 2014-2015

College Biology		
Grad Year	District	State
2014	40%	44%
2015	45%	44%

ACT - Scores have remained stable over the last 4 years. There was a 5 percentage point increase of students ready for college-level college biology coursework from the previous year.

Analysis of Progress
Level of Performance Science:

Kansas Science State Assessments Grades 4, 7, 11

The USD 308 science scores are within 5 percentage points of the state scores for the three grade levels.

Grade 4

Performance Level	n=324	District		State	Haysville
Level 5 Exemplary	47	15%		15%	14%
Level 4 Exceeds Standard	140	43%		46%	50%
Level 3 Meets Standard	104	32%		31%	31%
Level 2 Approaches Standard	24	7%		5%	5%
Level 1 Academic Warning	3	3%		1%	1%

Grade 7

Performance Level	n=337	District		State	Haysville
Level 5 Exemplary	34	10%		14%	8%
Level 4 Exceeds Standard	104	31%		32%	33%
Level 3 Meets Standard	140	42%		38%	42%
Level 2 Approaches Standard	45	13%		12%	13%
Level 1 Academic Warning	9	3%		2%	1%

Grade 11

Performance Level	n=325	District		State	Haysville
Level 5 Exemplary	16	5%		7%	2%
Level 4 Exceeds Standard	74	23%		23%	19%
Level 3 Meets Standard	149	46%		46%	58%
Level 2 Approaches Standard	69	21%		16%	18%
Level 1 Academic Warning	17	5%		3%	2%

Targets

Target 1: Stay within 5 percentage points of the state average on the new test format.

Target 2: Continuous improvement in average score and percent of students ready for college-level coursework on ACT.

Capacity Building:

1. Teachers will receive professional learning for the Next Gen Science Standards.