



School Board Presentation  
Proposed Grade 5-8 Model  
May 22, 2018

# Review: March 27th School Board Presentation

- Projected Enrollments
- Curriculum Impact
- Assessment Impact with 1:1 Computer Platform
- Cross Grade Interaction
- Special Education Impact
- Unified Arts Options
- PACE Programming
- New Hampshire Schools with Grade 5-8 Model

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## Current Topics to Address

- Transportation
- Extended Day Care/Boys and Girls Club
- Clubs and Activities
- Social Impact
- Playground Equipment Supply Cost
- Financial Implications
- Teacher Certifications
- 1:1 Computer Platform
- Assessment Impact without 1:1 Platform
- Integration of Technology into Curriculum
- Questions and Comments

# Transportation

Bus schedule will remain the same as currently in place:

GHH: 7:15-1:50pm

WRB: 7:20-1:55pm

## Total Current Number of Bus Routes Per School

- West Running Brook (10), Gilbert H. Hood (9) = Total 19 bus routes
- Barka (8), East Derry (7), Derry Village (5), Grinnell (5), South Range (4) = Total 29 bus routes

On average there are 34 elementary students per route & 32 middle school

- These numbers vary by am/pm and day of the week
- Each bus can hold 52 students (2 per seat) or 77 students (3 per seat)

It's possible that the number of buses and bus routes will change with enrollment and location. Routes will be evaluated and assigned using routing Software.

## Extended Day Care/Boys and Girls Club

Extended day care programs currently in our elementary schools would offer after school programs for grades 5-8 at each middle school (if an elementary school closes). Programs would be available from 2pm - 6pm.

Boys and Girls Club would be able to accommodate students from a 5-8 model.

- Cost (current): \$75.00 annual membership
- Transportation Cost (current): \$50.00 per month or \$4.00 per day
- Boys and Girls Club bus picks up two times daily at each middle school:
  - Dismissal
  - Approximately 3:45pm

# Clubs and Activities

## Tri-County Impact On Athletics

- Article 10 By-Laws stipulate that grades 5-8 may participate in competitive athletics
- Grade 7 and 8 student enrollment numbers are used to determine division levels

## Derry Cooperative School District Background and Considerations

- Based on numbers and competitive levels, our Athletic Directors intend to apply to move from Division 2 to Division 3, regardless of the middle school model.
- Based on historical student participation numbers, availability of qualified coaching candidates, student safety, and the regional trend in other schools, both middle schools will not offer B boys/girls soccer, B baseball, and B softball teams in 2018-19/2019-20.
- There is strong community input to add lacrosse at the middle school.
- All students, grades 5-8, can access all intramural sports and extracurricular clubs.

## Social Impact

- Children grow more and in more ways, during the stage of early adolescence (10-15) than any other time in their lives except ages birth to 2 years. This rapid growth results in an observable difference between incoming 5th grade students and outgoing 8th grade students. This is often addressed by physically separating the 5th grade in a 5-8 system. (Dover, Belmont [Blue Ribbon MS,] Amherst)
- The 2nd Step program is a K-8 program. Materials are provided by grade level. The fifth grade material would be passed to the middle school counseling program from the elementary schools. This increases the amount of time middle school counselors would be in the classroom. Therefore, the addition of fifth grade to the middle school may require an additional  $\frac{1}{2}$  counselor at WRB, so both schools will then have three counselors.

## Social Impact

- Service delivery is somewhat different in the middle school setting due to the phase of development of the early adolescent. Program changes would need to take place in order to accommodate an additional grade, especially with grades 5 and 6 on an elementary schedule and grades 7 and 8 on a middle school schedule, as is often the practice in a 5-8 model.
- Counselor viewpoint from existing 5-8 Guidance Counselors:
  - Dover Middle School: 1156 students, 4 Counselors
  - Amherst Middle School: 624 students, 3 Counselors
  - Hampstead Middle School: 447 students, 2 Counselors
  - Belmont Middle School: 360 students, 2 Counselors

## Social Impact

- **Schwartz, Stiefel, Rubenstein, and Zabel's (2011)** study found that grades K–4 to 5–8 span path and grades K–8 schools led to more positive student achievement than other paths: Our results suggest that changing school less frequently, *changing schools at an earlier grade*, a smaller size of the within-school cohort, and the stability of students' peer cohorts are the most likely explanations for these positive performance differences. (p. 295)
- **Hillyer (1972)** studied differences in the intellectual, emotional, and social maturity levels of students in grades 4-7 who attended either elementary or middle schools. He found distinguishable maturity differences at each level, but because *the greatest gap was between fourth and fifth grade*, recommended that grades 5, 6, and 7 be grouped together.
- **Schoo (1970)** reported that students in a *5-8 middle school showed higher self concepts* than students in other schools; concluded that 5-8 schools provide an easier transition for students from elementary schools.

## Social Impact

- Auburn Village School (K-8), Principal Dr. Lori Collins
- Hampstead Middle School (5-8) Principal Maria DiNola
- Vilas Middle School [Alstead] (5-8) Principal Gail Rowe
- Lebanon Middle School (5-8) Principal Dr. John D'Entremont

## Playground Equipment/Supply Cost

- The approximate cost for clearing and filling land behind the West Running Brook athletic field for a play area is \$20,000. There would be an increased cost for making the field regulation size for organized sports. Fencing costs have not yet been estimated.
- GHHMS field space is currently adequate for both recess and physical education space.
- Playground equipment may or may not be necessary.

# Elementary School Building “Mothball” Cost Estimates

- ❑ Payroll - \$5,500 for payroll to maintain building/grounds.
  - ❑ Salary for removal of snow for emergency access only
  - ❑ Maintenance emergencies ie: boiler down, leak, etc. (off hours)
  - ❑ Weekend building check
  - ❑ Annual custodial services
  - ❑ Mowing/property upkeep
- ❑ Utilities/Fuel - \$25,000
  - ❑ Set point of building temperature to 55 degrees seasonally
  - ❑ Serves security alarms, fire alarms, HVAC controls, security lights, HVAC blowers, motors, pumps, etc.
- ❑ Supplies - \$2,500 annual cost
  - ❑ Cleaning supplies, glass, bulbs, misc. Parts for repairs as needed
- ❑ Contracts/Maintenance/Inspections - \$12,000
  - ❑ Fire & Security Alarm monitoring, temperature control services, extermination services
  - ❑ Boiler cleaning & tune-up, motor repairs, filters, repairs as necessary
  - ❑ Fees for boiler certifications, fire safety inspections

# Estimated Savings of an Elementary School if Closed

- ❑ Staff- Salary & Benefits - \$915,500
  - ❑ Principal/Assistant Principal
  - ❑ (2) Secretary
  - ❑ Nurse
  - ❑ Guidance
  - ❑ Speech Language
  - ❑ Library Assistant
  - ❑ Computer Assistant
  - ❑ (4) Custodians
- ❑ Utilities/Fuel - \$105,000
  - ❑ Water/sewer, telephone, electricity, natural gas
- ❑ Misc- \$30,500 annual cost
  - ❑ Staff development
  - ❑ Printing/copiers
  - ❑ Dues & Fees
  - ❑ Furniture & equipment
- ❑ Contracts/Maintenance/Inspections - \$15,000

Total: \$1,066,000.00



# Current Available Teacher Certifications

## Core Education Classes

Early Childhood Education  
Elementary Education (K-8)  
Physical Science Education  
Mathematics (5-8)  
English Education (5-8)  
Social Studies (5-12)  
English for Speakers of Other Languages  
Emotional and Behavior Disabilities  
School Counselor  
Reading and Writing Specialist  
Specialist in Assessment of Intellectual Functioning (SAIF)

Elementary Education (K-6)  
Middle Level Science (5-9)  
Life Science Education (7-12)  
Mathematics (7-12)  
English Education (5-12)  
General Special Education  
Deaf and Hearing Impaired  
Specific Learning Disabilities  
School Psychologist  
Early Childhood Special Education

# Current Available Teacher Certifications

## Unified Arts

Music Education

Physical Education

Spanish

Visual Art Education

Comprehensive Technology Education

Comprehensive Business Education

Library Media Specialist

Education Technology Integrator

Comprehensive Family and Consumer Science Education

## 1:1 Computer Platform (All Students Have Laptop)

If the school district moves to a 1:1 computer platform, assessments can be administered to all students. Rolling out this 1:1 platform can be accomplished over a four year time frame.

- Year 1- Grade 5 on 1:1 Chromebooks; Grades 6-8 assess using labs and carts
- Year 2- Grades 5 and 6 on 1:1 Chromebooks; Grades 7 and 8 using labs and carts
- Year 3- Grades 5, 6 and 7 on 1:1 Chromebooks; Grade 8 using labs and carts
- Year 4- Grades 5, 6, 7, and 8 on 1:1 Chromebooks

If this 1:1 plan is not implemented, then schools will administer assessments in the remaining labs and Chromebook carts. Additional Chromebook carts will be required.

## Assessment Impact without 1:1 Computer Platform

If the school district does not move to a 1:1 computer platform, assessments must be administered to all students in computer labs and/or on Chromebook Carts. The number of Chromebook Carts needed will depend on the number of computer labs (30 Computers each) that are closed.

- Chromebook Cart: \$800.00 each
- Chromebooks: \$250.00 each X 30 Chromebooks / Cart = \$7500.00
- Each full Chromebook Cart = \$800.00 + \$7500 = \$8300.00
- Maintenance Fee (Some districts charge parents): \$25.00 - \$50.00 / Chromebook; \$25.00 X 30 Chromebooks = \$750.00; \$50.00 X 30 Chromebooks = \$1500.00
- If our district pays the maintenance fee, then each full Chromebook Cart will cost: \$9050.00 - \$9800.00

# Integration of Technology into Curriculum

Information Technology would provide the “How” for using hardware:

- Infrastructure (Wi-Fi)
- Hardware (Chromebooks, etc)
- Professional Learning
- Utilization of technology assistants (or Integrators) in classrooms for technology integration and student learning

# Integration of Technology into Curriculum

Curriculum Committees and Content Area Teachers Provide the  
“What”

- eBooks
- Flipped Classrooms
- Blended Classrooms
- Video Conferencing
- Online Collaboration
- Digital Hands-on Experiments
- Research
- Other Educational Applications

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