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#### **ABSTRACT**

Using a questionnaire developed for a 1985 national survey of educational practices for gifted students in both public and parochial schools (the Sid W. Richardson Study), this study surveyed 273 Iowa school districts in 1993 to determine types of programs in existence in Iowa schools and how Iowa schools differed from the nation's schools in its responses. The study gathered information on 16 program types which constitute practices or approaches judged appropriate for gifted students. Program types are: (1) enrichment in the regular classroom, (2) part-time special class, (3) full-time special class, (4) independent study, (5) itinerant teacher, (6) mentorships, (7) resource rooms, (8) special schools, (9) early entrance, (10) continuous progress, (11) nongraded school, (12) moderate acceleration, (13) radical acceleration, (14) College Board and Advanced Placement participation; (15) fast-paced courses, and (16) concurrent or dual enrollment. Comparison with the Richardson findings suggested that, overall, Iowa schools had more negative significant results than positive significant results. These negative results included significantly fewer supervisory staff responsible for gifted programs, significantly lower per pupil expenditures, and significantly fewer schools with special funding for gifted students. Positive results included significantly more schools in which all teachers participated in inservice training and significantly more use of libraries. The questionnaire is appended. (Contains 15 references.) (DB)

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Richardson Study: U.S. vs. Iowa

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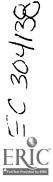
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RICHARDSON STUDY: U.S. VS. IOWA



## RICHARDSON STUDY: U.S. vs IOWA

In 1981 30 leaders in the field of gifted education were issued invitations to attend a conference in order to examine the then current practices in the field of gifted education. This conference was the official launching of the Sid W. Richardson Study, a national study to help make informed decisions that could have an impact on improving education for high ability elementary and secondary students (Cox & Gluck, 1989).

Part of the study included a national survey of public and parochial school districts which provided a profile of the current status of educational practices for gifted students throughout the nation. It is the fullest report on the then current educational practices for gifted students. The complete report was published in 1985 (Cox, Daniel, & Boston, 1985).

The study gathered information on 16 program types which constitute practices or approaches which are appropriate for gifted students.



The program types are:

- 1. Enrichment in the Regular 9. Early Entrance Classroom
- 2. Part-Time Special Class 11. Nongraded School
- 3. Full-Time Special Class 12. Moderate Acceleration
- 4. Independent Study
- 5. Itinerant Teacher
- 6. Mentorships
- 7. Resource Rooms
- 8. Special Schools

- 10. Continuous Progress

- 13. Radical Acceleration
- 14. College Board and Advanced Placement
- 15. Fast-Paced Courses
- 16. Concurrent or Dual Enrollment

The national study determined which programs were most effective and offered the best chance for adaptation to many environments. However, it would be necessary to determine which program types were in existence in the state of Iowa in order to make use of this information for Iowa schools. Therefore, the purpose of this study was to determine which program types were in existence in Iowa and how Iowa differed from the nation in its responses to the survey.

During the spring of 1993 the national questionnaire (see Appendix A) was sent to the 431 public school districts in Iowa. Two hundred seventy three or 63% of the school districts responded.

Iowa Results

Sample characteristics. Following are some of the



general characteristics of the responding Iowa school districts.

- 1. Fifty percent of the responses were from communities with a population of less than 650; 75% were from communities with a population of less than 1200; 12% were from communities of more than 2000.
- 2. One hundred percent of the respondents were from public, coeducational schools.
- 3. Twenty-four percent of the students in the school responding were receiving free or reduced-price lunches.
- 4. An average of 23% of the teachers working with gifted students had master's degrees.

There remarks ways in which Iowa school districts do not differ significantly from the nation's school districts in their responses to items on the national questionnaire. However, their significant differences are important in order to determine exactly where Iowa is better than or worse than the national average in programming for gifted students. These significant differences will help school districts to decide in which areas definite improvement or additions are necessary and in which areas less attention needs to be paid. Those differences that were statistically significant but not of practical significance were not considered in this report.



Statistical procedure. The chi square statistic was used to analyze the comparison of the categories of Iowa schools and the nation's schools in this study.

Significant positive results. The results in which Iowa scored significantly higher than the nation are labelled positive; however, that does not absolve Iowa school districts from the responsibility of making improvements in these areas.

- 1. Percentwise, Iowa schools (74.6%) had significantly more schools in which all of the teachers participated in inservice training on a regular basis than did the nation's schools (64%).
- 2. Percentwise, Iowa schools (98.8%) used the library significantly more as a resource for its gifted programs than did the nation's schools (91%).
- 3. Percentwise, Iowa schools (56.8%) used mentors significantly more as a resource for its gifted programs than did the nation's schools (50%).
- 4. Percentwise, Iowa schools (91.1%) had significantly more schools that had a written philosophy for educating gifted students than had the nation's schools (73.8%).
- 5. Percentwise, Iowa schools' (63.7%) lack of goals for gifted students written at the building level was significantly less than the nation's (77%) lack at that level. It is better to have goals written at the



district level with modifications made for unique situations at the building level.

- 6. Percentwise, Iowa schools (76.7%) used teachers in its advisory group for gifted programs significantly more than did the nation's schools (63%).
- 7. Percentwise, Iowa schools (70%) used administrators in its advisory group for gifted programs significantly more than did the nation's schools (61%). Care must be taken, however, not to permit the administrators to dictate or unduly influence the advisory group's decisions.
- 8. Both the nation's schools and Iowa schools established less special procedures at the building level for evaluating gifted programs, but Iowa schools (65.1%) had significantly less schools that lacked these special procedures than did the nation's schools (77%).
- 9. Percentwise, Iowa schools (86.5%) made significantly more special additional budgetary provisions for gifted students than did the nation's schools (76.5%). While laudable, this was made necessary because Iowa schools spend significantly less per pupil than do the nation's schools.
- 10. Percentwise, of the special additional budgetary provisions for gifted students, Iowa schools (76.5%) had significantly more special funding available for



gifted students at the local level than had the nation's schools (49%). Also laudable, but this funding should have been available at the federal and state levels making local funding unnecessary.

- 11. Where enrichment activities were provided for gifted students in the regular classroom, significantly more Iowa schools enriched the social studies (46.2% vs. 38%) and multidisciplinary areas (54.9% vs. 43%) than did the nation's schools.
- 12. Where enrichment activities were provided for gifted students in the regular classroom, significantly more Iowa schools (88.8%) used curricular materials different from those used in the regular program than did the nation's schools (66%).
- 13. Where itinerant teachers of the gifted were provided, significantly more of these teachers in Iowa schools served less than five schools (91.1% vs. 69.4%) and significantly less of them served 5 10 schools (8.1% vs. 22%) than did similar teachers in the nation's schools.
- 14. Where itinerant teachers of the gifted were provided, significantly more of these teachers in Iowa schools traveled less than 50 miles per week (85.9% vs. 74.3%) and significantly less traveled 50 100 miles per week (8.1% vs. 18.5%) than did similar teachers in the nation's schools.



- 15. Where resource rooms were provided for gifted students, significantly more Iowa schools (93.8%) had a special teacher of the gifted in charge of the resource room instead of a librarian or an aide than had the nation's schools (56%).
- 16. Where resource rooms were provided for gifted students, significantly more Iowa schools (76.8%) had that room located in a separate room rather than in the library compared to the nation's schools (59%). However, that separate room should be located near the library for ease of use.
- 17. Where school districts had an early entrance policy of allowing students to enter a school earlier than the normal age for that district, significantly less Iowa schools (20% vs. 78%) made the kindergarten available and significantly more made both the junior high school (40% vs. 15%) and senior high school (53.3% vs. 16%) available as a provision for early entrance than did the nation's schools. Very young gifted students are neglected and often unidentified. More provision for early entrance into kindergarten should be made available so that these students are encouraged and are challenged early rather than being taught by default that everything comes easily and that being better is unimportant. And while Iowa schools are significantly better than the nation's school in junior



and senior high school early entrance, 40% and 53.3% are still low compared to the 100% that they should be.

18. Where school districts had an early entrance policy of allowing students to enter a school earlier than the normal age for that district, significantly more of Iowa schools used achievement tests (86.7% vs. 28%) and teacher recommendation (80% vs. 36%) as a basis on which early assignments were made than did the nation's schools. The nation's schools relied almost exclusively on ability tests; Iowa schools used more varied criteria.

Significant negative results. These are the questionnaire items in which Iowa schools were significantly worse in meeting the needs of gifted children compared to the nation's schools.

- 1. Percentwise, Iowa schools (68.2%) had significantly less staff members at the supervisory or administrative level responsible for the gifted programs than did the nation's schools (85.6%). Without administrative responsibility and oversight, gifted programs do not receive the needed attention at the level where funding and resource decisions are made. Ownership of the gifted programs is absent and neglect is the inevitable consequence.
- 2. Percentwise, Iowa schools (47.5%) used the museum significantly less as a resource for its gifted



programs than did the nation's schools (56%). Even though many Iowa schools are located in rural areas or small towns and thus farther from museums than city schools, concerted efforts should be made for gifted (and other) students to visit museums. Field trips in combination with other schools in the area would help defray expenses and have social advantages as well.

- 3. Percentwise, Iowa schools (42.9%) used industry significantly less as a resource for its gifted programs than did the nation's schools (51%). Of course, there is less industry located in Iowa than in other states and it is generally concentrated in large city areas. Nevertheless, efforts in the form of field trips should be made to for gifted students to visit industry because it is an important part of our nation and touches on many academic areas.
- 4. Overall, per pupil expenditure in Iowa schools (20.2%) was significantly less than per pupil expenditure in the nation's schools (79.8%); however, per pupil expenditure in Iowa schools in the \$2501 \$3000 range (58.3%) was significantly more than per pupil expenditure in the nation's schools in that range (12.1%) while per pupil expenditure in Iowa schools in the \$1500 \$2000 range (0.8%) was significantly less than the nation's schools in that range (32.8%). That



the nation's school spend four times as much per pupil than does Iowa schools has implications for gifted education. If gifted education were treated equally with other school programs (and it is not), this discrepancy would extend to the gifted programs as well. This means that Iowa schools only expend at the most only one-fourth on its gifted students compared to the nation's schools expenditure for gifted students. That this should be addressed by the Iowa legislature immediately is an understatement and a deprivation of the opportunities to develop these students to their fullest potential.

5. Eighty-five percent of the nation's schools and 95% of Iowa schools had no special funding available for gifted students at the federal level. Of the remaining schools, Iowa schools (4.9%) had significantly less funding available at the federal level than did the nation's schools (15%). One of the major shortcomings in the area of gifted education has been the lack of funding and support at the federal level. With P.L. 94-142, Education for All Handicapped Children Act, children at the lower end of the intelligence scale along with other handicapped children are recognized as needing federal assistance. Gifted children are also handicapped in that their growth is stunted without federal support to fund a



specialized education for them. They must crawl when they could be flying; the intellectually gifted must endure reading material at their grade level when they are reading three, four or more grades above grade reading level and often hit the ceiling of their teacher's knowledge; creatively gifted students are limited by the lack of expertise on the part of their regular teachers. Truly, the gifted should be included in the definition of the handicapped in PL 94-142. Where enrichment activities were provided for gifted students in the regular classroom, significantly more Iowa schools (39.9%) involved all of the class in those activities than did the nation's schools (26.7%). If enrichment activities are to challenge gifted students through the higher order thinking skills of analysis, synthesis, and evaluation, then the whole class cannot be involved since the regular students cannot operate at those three levels. If the whole class is involved, either the material is too hard for the regular students or too easy for the gifted students. In addition, research indicates that regular classroom teachers make very few modifications in their instruction for gifted students (Tomlinson, 1995; Westberg, Archambault, Dobyns, & Salvin, 1993). Eventually, movement should be toward the continuous progress program and then to the full-time special



class program.

- 7. Where enrichment activities were provided for gifted students in the regular classroom, significantly more Iowa schools (75.1%) allotted less than three hours per week for those activities than did the nation's schools (55.8%). Because gifted students learn in a fraction of the time that regular students do, there is time in the class day to engage in enrichment activities; but regular students have little if any time left for enrichment activities. This conflict results in the above finding which deprives gifted students of enrichment time because they are included in the classroom with regular students. When gifted students are placed in classes with only gifted students for their areas of giftedness and with the regular students for all other activities, this deprivation will end.
- 8. Where enrichment activities were provided for gifted students in the regular classroom, significantly less Iowa schools (67.2%) used individualized instruction as an enrichment strategy than did the nation's schools (82%). If gifted students must be in the regular classroom, then individualized instruction is a logical strategy to accommodate gifted students. This does not seem to occur enough in Iowa schools and it should.



9. Where pull-out programs were provided, significantly less Iowa programs met one day a week (30% vs. 50%) or five days a week (9.6% vs. 25%) but significantly more met 2 - 4 days week (60.4% vs. 36%) than did similar programs in the nation's schools. is not inherent that gifted students are gifted at certain times and not at other times; it is not inherent that they are gifted only one or two days a week or certain times during the day. They are always gifted. What is necessary is to be challenged and to be given the time in which to used their gifts. Gifted students should be in classes with other gifted students that meet five days a week. Gifted students are affected when they spend extended periods of time with regular students where the ceiling of expectations are those of the regular students and thus too low for the gifted students. In these situations, the gifted students' capacity is bent, misshapen and malformed, exactly as their bodies would be if placed in physical spaces where the ceilings are too short for their heights. A conclusion of the Richardson Foundation study is that pull-out programs are a part-time solution to a full-time problem (Cox & Daniel, 1985). There are many disadvantages to the pull-out program; foremost being that it is not a total program because it is isolated, fragmented, time-limited, lacks



continuity, and lacks integration and coordination with other school programs (Cox & Daniel, 1984).

- 10. Where pull-out programs were provided, significantly less Iowa programs had 1 2 hour classes (33.8% vs. 42%), significantly less had more than 2-hour classes (7.5% vs. 33%) but significantly more lasted less than one hour (58.8% vs. 31%) than did similar programs in the nation's schools. Where gifted programs are tied expediently to the length of periods in the schools (usually less than one hour), then the program suffers unless demands are made for greater lengths of time in a day for gifted programs. These hours are nominal and the curriculum is most often unrelated to the scholastic demands of students who have mastered at least half of the curriculum before the start of a school year, which is the case at the elementary level.
- 11. Where part-time special classes were provided (with students of similar ability part of the time) for gifted students, significantly less Iowa special classes studied mathematics (27.6% vs. 42%), science (25.4% vs. 37%), English/language arts (29.4% vs. 51%) or social studies (21.9% vs. 31%) in the classes and significantly more classes studied multidiciplinary content areas (83.3% vs. 62%) and other content areas (21.5% vs. 9.2%) than did similar classes in the



nation's schools. Too often, part-time special classes and pull-out programs are seen as non-academic programs where students engage in challenging activities in their areas of giftedness or in areas other than the traditional school program. For the intellectually gifted, this means studying incontent areas which are three or four or more grades below the grade levels of their knowledge. In the part-time special classes and pull-out programs, students should be advancing beyond the grade levels of their knowledge in the traditional areas listed above. Too often, "multidisciplinary" means snippets of this and that without regard to scope and sequence of any areas--a poor substitute for advancement in the traditional academic subjects. Where full-time special classes for gifted 12. students were provided (with students of similar ability all of the time), significantly less Iowa classes studied science (33.3% vs. 53.1%), English/language arts (50% vs. 70%), or social studies (25.9% vs. 43%) in the classes than did similar classes in the nation's schools. One wonders what students did in these full-time special classes in Iowa since the traditional academic subjects were barely covered. Challenging activities such as puzzles and mystery solving have its place but are no substitute for the



primary purpose of the school.

- Where full-time special classes for gifted students were provided, significantly more Iowa classes (29.1%) provided the same curricular materials as those studied in regular classes than did similar classes in the nation's schools (14.7%). Since gifted students learn faster than regular students, what will the teacher do near the end of the year when those curricular materials are learned early? If the teacher goes on to the curricular materials of the next grade, then much has been accomplished. However, schools seldom do this. This means that gifted students are taught at the same pace as the regular students with a consequent loss of the additional subject matter that they could have learned. What is necessary is subject matter that is taught in a different way so that it challenges gifted students to think at a higher level-to analyze, synthesize, and evaluate.
- 14. Where full-time special classes for gifted students were provided, significantly more Iowa schools (24.1%) used self-selection as opposed to having specific selection criteria in assigning students to these classes than did the nation's schools (5.0%). Although 75.9% of Iowa schools did not use self-selection in assigning students to full-time special classes, that per cent is still significantly less than



the 95% of the nation's schools that did not use self-selection. That nearly one-fourth of Iowa schools carelessly permitted anyone who wanted to attend these full-time special classes for the gifted defeats the purpose of these classes: to have a homogeneous group that can move rapidly through academic material and at a different intellectual level without being held back by the average and above average students.

- 15. Where independent study was provided for gifted students, significantly more Iowa schools allotted less than three hours per week to it (66.7% vs. 57%) and significantly less Iowa schools allotted more than five hours per week to independent study than did similar programs in the nation's schools (0.8% vs. 9%). While independent study hours needed vary by student maturity and student project, the allotted hours should be generous with restrictions set individually by the parent or teacher of the gifted child.
- 16. Where independent study was provided for gifted students, significantly less Iowa schools provided mathematics (30.2% vs. 41%) and English/language arts (32.5% vs. 42%) as a content area and significantly more provided multidiciplinary studies (66.7% vs. 55%) as a content area for independent study than did the nation's schools. While gifted students are encouraged to seek and make connections among the various



disciplines, the traditional subjects will be the one studied in colleges and universities and more schools should provide for them as independent study than the barely one-third of the schools that the survey shows.

- 17. Where itinerant teachers of the gifted were provided, significantly less of these Iowa teachers (35.4%) taught in a permanent classroom assigned for that purpose than did similar teachers in the nation's schools (53.1%). While space in schools is always a problem that has competing interests, having or not having a permanently assigned classroom is an indication of the worth of a program by the administration. Evidently, in Iowa itinerant teachers of the gifted are not considered as worthy as some other programs. This attitude is not lost on the gifted students and their families and on the other personnel in the school as well. This cannot help but impinge negatively on the learning as well as the treatment of these gifted students.
- 18. Where mentorships were provided for gifted students, significantly more Iowa schools allotted less than three hours per week (63.3% vs. 38%) and significantly less of them allotted 3 5 hours per week (8.3% vs. 22%) of school time to a student to work with a mentor than did the nation's schools. While mentorship hours vary by student maturity and the



project involved, the <u>allotted</u> hours should be generous with individual hours set by the teacher or the mentor in consultation with the teacher.

- 19. Where mentorships were provided for gifted students, significantly more Iowa schools (82%) used school staff as mentors than did the nation's schools (55%). When school staff are used as mentors, opportunities are lost to have experts in a wide variety of fields interact with gifted students both academically and socially. Using school staff, expert as they might be, is an expedient way to provide minimal service.
- 20. Where resource rooms were provided for gifted students, significantly more Iowa students spent less than three hours (77.2% vs. 52%), significantly less spent 3 5 hours (21.9% vs. 42%), and significantly less spent more than five hours (0.9% vs. 11%) in such a room compared to gifted students in the nation's schools. Both enrichment programs and individualized learning require the use of resources. Generally, the less time spent in the resource room, the more restricted the scope of the work of the gifted students. Teachers of gifted students should encourage students to make more use of the resource room and make more assignments that require the use of resources.
- 21. Where resource rooms were provided for gifted



students, significantly less Iowa schools (55%) had films available in those rooms than did the nation's schools (67.1%). Films uniquely provide information and concepts that are difficult to obtain: slow, fast and regular motion; sequences of events; poignant moments; close-ups of events; and magnification of microscopic material. To deny students these aspects is to limit the education of these students.

- 22. Where districts had a continuous progress policy of allowing students to progress through the curriculum of one or more subject areas as the required skills were mastered, significantly less Iowa schools (62.2%) used the elementary school as the level at which this occurred than the nation's schools allowed (80.1%). One major characteristic of gifted students, perhaps the key characteristic, is that their rate of dealing with new information is much faster than average. Evidence for this comes from both evaluation of gifted students' learning in classroom situations as well as from experimental psychology (George & Denham, 1976; Keating & Bobbitt, 1978). It follows that schools should use full-time special classes as a policy and as early as possible.
- 23. Where districts had a continuous progress policy of allowing students to progress through the curriculum of one or more subject areas as the required skills



were mastered, significantly less Iowa schools (52.4%) used language arts as a content area in which students could advance at their own pace than the nation's schools allowed (73.1%). Even more than mathematics, language arts is a content area that is vitally important for communication and interaction. More Iowa schools should use this area as a content area for continuous progress for gifted students.

24. Where districts had a continuous progress policy of allowing students to progress through the curriculum of one or more subject areas as the required skills were mastered, significantly more Iowa schools had less than 5% (47.4% vs. 26.6%) and significantly less had more than 20% (5.3% vs. 27.6%) of its students functioning above grade level in one or more content areas that particular year than did the nation's schools. Compared to secondary schools, elementary schools have the larger enrollment. When significantly less Iowa schools use the elementary school for continuous progress programs (see # 22), it can be expected that less gifted students will be functioning above grade level. The remedy is to offer more continuous progress programs at the elementary level. A major advantage of continuous progress programs is that gifted students are not held back at the pace of the regular students and thus do not waste learning



time until the school year is over. A motivational factor in the continuous progress programs is that gifted students are with their intellectual peers. Where schools offered the College Board Advanced Placement (AP) program, significantly less Iowa schools (25.8%) offered American History as an advanced placement course than did the nation's schools (58.1%). This may be a function of the very small enrollments in over half of Iowa schools districts (see #1 under sample characteristics) where there might not be enough gifted students to form a class. Nevertheless, the opportunity should not be denied to gifted students to enroll in Advanced Placement American History because of the size of the school district. Combining gifted students from several neighboring school districts to form such a class might be a solution.

#### Recommendations

- 1. Even though Iowa schools and the nation's schools did not differ significantly in many areas and items on the national questionnaire, there were many of those areas in which both scores were low. It is recommended that the Iowa Department of Education and the departments of education of the other 49 states make all attempts to increase the number of schools in their states in those areas where the per cents were low.
- 2. Even though Iowa schools scored significantly



higher than the nation's schools on some items of the national questionnaire, the Iowa per cent in many cases was low. It is recommended that those deficient Iowa schools:

- a. include all the teachers as participants in inservice training on a regular basis;
- b. use mentors more as a resource for its gifted programs;
- c. cease the practice of writing goals for gifted/talented on the building level and encourage the school district to set district-wide goals;
- d. include more teachers in its advisory group for the gifted program;
- e. increase the number of administrators in its advisory group for gifted programs;
- f. cease establishing special procedures at the building level for evaluating gifted programs and encourage the school district to establish these procedures at the district level;
- g. increase local special funding available for gifted students while encouraging the state legislature to give the gifted the same fiscal consideration that it gives to handicapped students;
- h. include social studies as an enrichment activity for gifted students in the regular classroom;
- i. locate resource rooms for gifted students in



separate rooms rather than in the libraries.

- j. make all levels from kindergarten through senior high school available for early entrance for gifted students.
- 3. Where Iowa schools scored significantly lower than the nation's schools on the questionnaire, it is recommended that the deficient Iowa schools:
- a. increase the number of staff members at the supervisory or administrative level responsible for gifted programs;
- b. use both the museum and industry as resources for its gifted programs;
- c. increase per pupil expenditure to at least match average per pupil expenditure on the national level;
- d. contact their federal legislators in order to increase the very low special funding available for gifted students at the federal level;
- e. do not involve all of the class in regular classrooms in enrichment activities provided for gifted students but separate these activities; provide full-time special classes, instead;
- f. allot more than three hours per week for enrichment activities that were provided for gifted students in the regular classroom; provide full-time special classes, instead;
- g. use individualized instruction as an enrichment



strategy where enrichment activities were provided for gifted students in the regular classroom; instead, provide full-time special classes.

- h. meet five days a week for pull-out programs that are provided for gifted students; substitute full-time special classes, instead;
- i. provide for two or more hours per class for pullout programs for gifted students; replace pull-out programs with full-time special classes;
- j. study mathematics, science, English/language arts, and social studies in the part-time special classes provided for gifted students;
- k. study science, English/language arts, and social science in the full-time special classes provide for gifted students;
- 1. do not provide the same curricular materials for gifted students in full-time special classes; provide differentiated materials that challenge the gifted at their levels of achievement and on higher thinking levels;
- m. do not use self-selection as the only criterion in assigning students to full-time special classes; instead, have specific selection criteria to accomplish this;
- n. allot five or more hours per week to independent study for gifted students;



- o. study mathematics and English/language arts as content areas in the independent study program for gifted students;
- p. provide a permanent classroom for itinerant teachers of the gifted;
- q. allot five or more hours for gifted student to work with mentors in a mentorship program;
- r. use less school staff and more outside experts for gifted students in mentorship programs;
- s. allot five or more hours for use of in a resource room for gifted students;
- t. have films available in resource rooms that were provided for gifted students;
- u. especially use the elementary schools to implement
   a continuous progress policy;
- v. use anguage arts as an area in which students could ance at their own pace in continuous progress programs;
- w. offer American History as an advanced placement course in the College Board Advanced Placement program.
- 4. All schools both in Iowa and on a national level should apply the seven basic principles that all gifted programs should meet before being implemented by asking the following seven questions (Belcastro, 1987):
- a. Is the gifted program curriculum tied to the regular curriculum?



- b. Is there a rigorous identification procedure?
- c. Is the program in effect every day, all day?
- d. Does the program provide placement and interaction with intellectual peers?
- e. Is faster pacing of the class facilitated?
- f. Are students challenged at their own level using different strategies?
- g. Are teachers selected who are trained in gifted education?
- 5. Aim to have the full-time special class as the primary program for gifted students but apply the seven basic principles (Belcastro, 1987) to that program. This program is the best option to promote the academic, social, and emotional growth of gifted students (Willis, 1995). This applies to other gifted programs as well; results indicate that accelerated students and students in gifted classes have better perceptions of their social relationships and emotional development and tend to have fewer serious school behavior problems than regular students (Saylor & Brookshire, 1993).
- 6. For the most advanced students, mentorships and acceleration opportunities such as taking college classes while in the middle school or high school would help meet their needs. Research has shown that these students are able to do college-level work in



mathematics and physics while still in middle school and high school (Ravaglia, Suppes, Stillinger, & Alper, 1995).

7. Those Iowa teacher interested in developing an Advanced Placement course should take advantage of a unique opportunity for training at little cost by applying for an Iowa AP Enhancement Grant available through the Iowa Department of Education.

### Conclusions

- 1. Iowa schools had more negative significant results when comparing them to the nation's schools than positive significant results. The gifted programs in Iowa fall short of principles of excellence and need improvement.
- 2. Educators need to demolish the claim that mixedability classrooms can meet the needs of gifted
  students. When it is noted that the ability range
  among the gifted is as vast as that among the retarded,
  the unsuitability of the mixed-ability classroom for
  nurturing students at either extreme should be
  appreciated.
- 3. Educators need to acknowledge the ability of gifted students, affirm it, make plans to stretch it, and see it as part of the essence of school and of society.
- 4. The mixture of gifted and almost-gifted does a disservice to both groups since it either inhibits the



maximum development of the intellectually gifted or overtaxes the abilities of the almost-gifted intellectually.

- 5. Unless teachers trained in gifted education and possessing specific traits are used as teacher in programs for the intellectually gifted, the program will lack proper planning, structure, direction, and resources and will not achieve its potential but will be a program in name only. Research showed that teachers trained in gifted education demonstrated greater teaching skills and developed more positive class climates than did teachers who had no training in gifted education (Hansen & Feldhusen, 1994).
- 6. More attention needs to be given to gifted students in special populations, including cultural minorities, students with disabilities, and underachievers (Gallagher & Gallagher, 1994).
- 7. Parents need to be involved in the school programs of their gifted children so that they feel that they have ownership in the programs and so that they learn important ways to reinforce classroom activities (Baldwin, 1994).
- 8. In-school curricular options should be supplemented with a home visitor who serves as a liaison between students' families and the school. In addition, the home visitor assists families in obtaining social



services and information about career and college opportunities. These home visitor should be counselors or social workers (Hiatt, 1994).



## Abstract

A national survey of public and parochial school districts was conducted (Richardson Study) which provided a profile of the current status of educational practices for gifted students. Using the national questionnaire, a similar survey of Iowa school districts was conducted in 1993 to determine which programs were in existence in Iowa schools and how Iowa schools differed from the nation's schools in its responses. The chi-square statistic was the tool of comparison. Results indicated that overall Iowa schools had more negative significant results than positive significant results. Recommendations were made.



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Appendix A



# THE RICHARDSON STUDY

# **IOWA QUESTIONNAIRE**

The Sid Richardson Foundation in Fort Worth, Texas, is continuing its national study of elementary and secondary programs for gifted students. We are collecting data on programs that are identified as special programs for the gifted and also on other provisions for the most able and talented students which may not be identified as "Gifted Programs."

This questionnaire, though rather lengthy, should require only a few minutes of your time since not all of it will be applicable to any one district. You will notice that the programs are identified by a Roman numeral in the margin and that they are separated by double lines. We request that you complete the General Information section at the beginning and any other sections which apply to your district. The results of the study will be available state-wide to all who are concerned with this important issue.

An addressed envelope, requiring no postage, is enclosed for your convenience.

# GENERAL INFORMATION

ool District				
Name of District				
me of person completing questionnaire				
on's title	Telephone No			
ress				
	Street			
City	State	Zip		
A. What is the total population	of the area served by your school distric	t?		
(1) Less than 50,000	(2) 50,000-100,000	(3) 100,001-200,000		
(4) 200,001-300,000	(5) 300,001-400,000	(6) 400,001-500,000		
(7) More than 500,000				
B. Please list the number of ce	rtified staff members in your district.			
(1)				
C. What percentage of teacher	s have as their highest degree:			
(1) B.S., B.A.	(2) M.S., M.A., M.Ed.	(3) Ph.D., D.Ed.		
D. Is the school:	(1) Public	(2) Private		
(3) Parochial	(4) Other. Please specify	<u> </u>		
E. Is the student population:	(0) 1116	(2) (2 1 · · · · · · · ·		
(1) All male	(2) All female	(3) Co-educational		



F. Please list the number of studen	nts enrolled in:	
(1) Pre-School	(2) Elementary	(Inc. K.)
(3) Middle/Junior High	(4) Senior Hig	h
G. The student ethnic ration is:		
(1) % Anglo	(2) % Black	(3) % Hispanic
(4) % Asian	(5) % Native American	
(6) Other. Please specify		
-	eceive free or reduced-priced lunch?	
(1) None	(2) List the pe	rcentage who do.
I Check the procedures included	in identifying students for special pro	grams or
provisions for gifted students.	racinary in g condense and of come fac-	<b>6-</b>
•	(2) I.Q. tests	(3) Achievement tests
(4) Grad 3	(5) Teacher nomination	(4) Peer nomination
	(5) Teacher nonmation	
(/) Other. Flease specify	-	
J. Are there special requirements	for teachers in these programs?	
(1) No	(2) Yes. Please specify	
K. The following staff members 1	participate in inservice training on a re	egular basis:
(1) None	(2) Teachers in gifted/talente	ed programs
(3) All teachers	(4) Counselors	(5) Administrators
(6) Other. Please specify		
		11 C- Al CA- J mno-mon-9
	visory ot administrative level responsi	
(1) Yes. Specify title		(2) No
M. Check the following resource	se vour program uses	
		(4) Government agency
(1) Library(2) W	useum(3) Industry	(4) Government agonoy
	thers. Please specify	
N. Does the district have a writte	en philosophy for educating gifted stud	dents?
(1) Yes	(2) No	
O. Goals for gifted/talented stude	ents are written:	
(1) For the district level	(2) For the building level	(3) Not at all
P. An advisory group for the gift	ted/talented program includes:	
(1) Students(2) Pa		(4) Administrators
		(6) Does not exist
Q. Special procedures for evalua	ating the gifted/talented program are e	stablished:
(1) At the district level	(2)At the building level	(3) Neither



	(1) Less than \$1,500	(2) \$1,500-\$2,000	(3) \$2,001-\$2,500
	(4) \$2,501-\$3,000	(5) \$3,001-\$3,500	(6) \$3,501-\$4,000
	(7) \$4,001-\$4,500	(8) \$4,501-\$5,000	(9) More than \$5,000
S.	Are special additional budg	etary provisions made for gifted/talente	ed students?
	(1) Yes	(2) No	
		ole for gifted/talented, check any of the Local (3) Federal	
	(5) Other. Please specify.	·	
	. Please list the program or soserver.	school in your district which you recom	mend for a visit from an outside
N	ame of school		
A	ddress		
_			
	City	State	Zip
Pe	erson to contact	Position	<u> </u>
T	elephone No/ AC		
	AC	GULAR CLASSROOM. The teacher	with or without special assista
E	AC  NRICHMENT IN THE REC		
E pr ir	NRICHMENT IN THE REcovides enrichment activities astruction in this category.	GULAR CLASSROOM. The teacher	
E pri irr	NRICHMENT IN THE REcovides enrichment activities astruction in this category.  '. How many students particity (1) All of the class	GULAR CLASSROOM. The teacher for gifted students in a heterogeneous clipate in the enrichment activities?(2) Those idea.	assroom. We include individual
E pri irr	NRICHMENT IN THE REcovides enrichment activities astruction in this category.  '. How many students particity (1) All of the class	GULAR CLASSROOM. The teacher for gifted students in a heterogeneous cl	assroom. We include individual
E priir	NRICHMENT IN THE REcovides enrichment activities astruction in this category.  '. How many students particity (1) All of the class (3) Those identified as gi	GULAR CLASSROOM. The teacher for gifted students in a heterogeneous clipate in the enrichment activities?(2) Those idea.	assroom. We include individual
E pri irr	NRICHMENT IN THE REcovides enrichment activities astruction in this category.  '. How many students particity (1) All of the class (3) Those identified as gi	GULAR CLASSROOM. The teacher for gifted students in a heterogeneous clipate in the enrichment activities?  (2) Those in the diffed/talented plus others, but not included to enrichment activities per week?	assroom. We include individual lentified as gifted/talented ling the entire class.
E priir	NRICHMENT IN THE RECTORISE CONTROL OF THE RECTOR OF	GULAR CLASSROOM. The teacher for gifted students in a heterogeneous clipate in the enrichment activities?  (2) Those identified/talented plus others, but not included to enrichment activities per week?  (2) 3-5 hours	assroom. We include individual lentified as gifted/talented ling the entire class.
E pri irr	NRICHMENT IN THE RECTOVIDES enrichment activities instruction in this category.  Y. How many students particity (1) All of the class (2) Those identified as given as the content areas are engineering.  Y. How much time is allotted (1) Less than 3 hours.  Y. Which content areas are engineering.	GULAR CLASSROOM. The teacher for gifted students in a heterogeneous clipate in the enrichment activities? (2) Those identified/talented plus others, but not included to enrichment activities per week? (2) 3-5 hours  nriched? (2) Science	assroom. We include individual dentified as gifted/talented ling the entire class. (3) More than 5 hour(3) English/
E pri in V	NRICHMENT IN THE RECTOVIDES enrichment activities instruction in this category.  Y. How many students particity (1) All of the class (3) Those identified as given as a substitution of the class (1) Less than 3 hours  Y. How much time is allotted (1) Less than 3 hours  Y. Which content areas are ended (1) Math (4) Social Studies	GULAR CLASSROOM. The teacher for gifted students in a heterogeneous clipate in the enrichment activities? (2) Those identified/talented plus others, but not included to enrichment activities per week? (2) 3-5 hours	assroom. We include individual dentified as gifted/talented ling the entire class. (3) More than 5 hour(3) English/ Language Arts



	<ul><li>Z. What strategies are used in the</li><li>(1) Group instruction</li></ul>	(2) Individua	
	(3) Special projects	(4) Puzzles a	
	(5) Other. Please specify		
			Color dinor housing
	'al and a second on a hilitar nor	condary level it would include nono	el, this provision might be described rs classes. Resource rooms are con-
	AA. How many days per week de	oes the special class meet?	
	(1) 1 day per week	(2) 2-4 days per week	(3) 5 days per week
	BB. What is the length of each c	lass session?	
	(1) Less than 1 hour	(2) 1-2 hours	(3) More than 2 hours
	CC. Which content areas are stud	died in the special class?	(2) English/
	(1) Math	(2) Science (5) Multidisciplinary	(3) English/ Language Arts
	(4) Social Studies	(5) Multidisciplinary	•
	(6) Other. Please specify		
	DD. What strategies are used in	the special class?	. 1 instruction
	(1) Group instruction		ual instruction
	(3) Special projects		s and games
	EE. Do the regular classroom te	acher and the special class teacher	co-ordinate their curricular plans:(3) Not at all
	(1) Regularly	(2) Occasionally	(3) Not at all
		te up work covered in the regular cl	assroom during his/her absence? ) No
	(1) Yes	\\	, 1.0
III.		-+a A++be secondaty level INIS IIIII	be a self contained or departmentalize ght be a single course in which the stone his where two or more classes are int
	GG. Which content areas are s	tudied in the special class?	
	_(1) Math	(2) Science	(3) English/
	(4) Social Studies	(5) Multidisciplinary	Language Arts
	(6) Other. Please specify.		
		als the same as those studied in regu	
	445 97	(2) NO	
	(1) Yes	<del></del> \ ′	



	<ul><li>II. How are students assigned to special classes?</li><li>(1) Specific selection criteria</li></ul>	(2) Self-selectio	on.
	JJ. Is the amount of curricular material covered:(1) About the same as in the regular classes	(2) Greater than	in the regular classes
IV.	INDEPENDENT STUDY. A student chooses confresponsibility for meeting objectives.	ertain areas for investig	ation and assumes a high degree
	KK. How much time is allotted to independent stu(1) Less than 3 hours(2) 3-5	•	(3) More than 5 hours
	LL. In which content areas do students engage in(1) Math(2) Scie(4) Social Studies(5) Mul(6) Other. Please specify	ence tidisciplinary	(3) English/ Language Arts
	MM. What resources do the students use in indpe(1) Staff(2) Library(5) Other. Please specify	endent study?(3) Community	(4) Laboratory
	NN. How is a student's independent study progres(1) Self(3) Other. Please specify	(2) Teacher	
V.	ITINERANT TEACHER. A teacher with special than one school on a regular basis.	skills in gifted educatio	on teaches gifted students in more
	OO. How many schools do itinerant teachers server(1) Less than 5(2) 5-16		(3) More than 10
	PP. Do itinerant teachers teach in:(1) The regular classroom teacher's room(2) A permanent classroom assigned for the particle(3) In a variety of settings	purpose	
	QQ. Do the regular classroom teacher and the itin(1) Regularly(2) Occ	nerant teacher co-ordinates	ate their curricular plans?(3) Not at all
	RR. What is the average number of miles driven distance to and from the home?	by an itinerant teacher	per week, exclusive of the
		100 miles	(3) More than 100 miles



(1) None; it is an out of school	ed to a student	to work with a me	entor?
	program	(2) Less that	an 3 hours per week
(3) 3-5 hours per week		(4) More th	an five hours per week
<ul><li>Γ. Is Carnegie credit awarded for(1) Yes</li></ul>	work with men	itors?	(3) Sometimes
	(2) Spec	cific criteria	(3) Recommendations
		(2) Univer	sity faculty
	people		Please specify
VW. Do mentors receive special t(1) Yes	raining?	(2) No	
XX. Are mentors paid?(1) Yes		(2) No	
RESOURCE ROOMS. This might notividually or in groups to explor	nt be a corner o e special areas	f the library or an of study.	entire room where gifted students go
RESOURCE ROOMS. This might ndividually or in groups to explorately. How much time per week do(2) Less than 3 hours	e special areas	of study. end in a resource 1	
ndividually or in groups to explor	e special areas es a student spe(3) 3-5	of study. end in a resource in hours	entire room where gifted students go room?(4) More than 5 hours d from week to week
ndividually or in groups to explorately YY. How much time per week do(2) Less than 3 hours  ZZ. Time scheduled in the resource(1) The same each week  AAA. Who is in charge of the resource	es a student special areas es a student special (3) 3-5 ce room is: source room?	of study.  end in a resource thours (2) Varie	coom?(4) More than 5 hours d from week to week
ndividually or in groups to explorately YY. How much time per week do(2) Less than 3 hours  ZZ. Time scheduled in the resource(1) The same each week	es a student special areas es a student special (3) 3-5 ce room is: source room?	of study.  end in a resource thours (2) Varie(2) Libra	coom?(4) More than 5 hours d from week to week
	(1) Yes  U. How are mentors selected?(1) On a voluntary basis  V. Who are the mentors?(1) School staff(3) Business and professional  VW. Do mentors receive special t(1) Yes  XX. Are mentors paid?	(1) Yes(2) No  U. How are mentors selected?(1) On a voluntary basis(2) Specially.  V. Who are the mentors?(1) School staff(3) Business and professional people  VW. Do mentors receive special training?(1) Yes  XX. Are mentors paid?	

MENTORSHIPS. We define mentorships as a program which assigns gifted students to work or study with



VI.

	DDD. Where is the resource room located?(1) In a separate room(3) Other. Please specify	(2) In the library
VIII.	SPECIAL SCHOOLS. These include magnet sch which include the entire spectrum. Also included	ools which focus on a single discipline as well as those are residential schools for the gifted.
	EEE. The special school is:(1) Residential	(2) Non-residential
	FFF. The special school has a:(1) General curriculum(2) Special area of concentration. Please spe	cify
	GGG. Is the school considered a magnet school?(1) Yes	(2) No
	HHH. How are the students selected?(1) Self-selected	(2) Specific criteria
	III. Is the school considered a school for gifted st(1) Yes	tudents? (2) No
	JJJ. Do the students pay tuition?(1) Yes	(2) No
	KKK. How long has the school been in existence(1) Less than 5 years(2) 5-1	
IX.	EARLY ENTRANCE. We define early entrance the normal age for that district.	as a policy allowing students to enter a school earlier than
	LLL. At what level(s) is the provision for early (	entrance made?(2) First grade
	(3) Middle/Junior High School	(4) Senior High School
	MMM. How many students entered these levels please.	last year due to early entrance policy? List the number
	(1) Kindergarten	(2) First grade
	(3) Middle/Junior High School	(4) Senior High School



	made? Check all that apply.
(1) Ability test	(2) Achievement test
(2) Teacher recommendation	(4) Parental request
(5) Other. Please specify	
OOO. Of the number accepted last year as ear	rly entrants, how many continued for at least one full year
List <u>numbers</u> at the appropriate levels please.	, and a second for the foliation of the
(1) Kindergarten	(2) First grade
(3) Middle/Junior High School	(4) Senior High School
PPP. Last year how many students left high so	chool prior to graduation to enter college or university?
(1) None	(2) List the number, please
QQQ. How long has the early-entrance policy	v existed in your district?
(1) Less than 5 years(2):	5-10 years(3) More than 10 years
	•
CONTINUOUS PROGRESS. We define contin	nuous progress as a provision for students to progress through
the curriculum of one or more subject areas as	the required skills are mastered.
RRR. At which level(s) is continuous progress	s in operation?
(1) Pre-School	(2) Elementary (Inc. K)
(3) Middle/Junior High School	(4) Senior High School
SSS. In what content areas does continuous pa	rogress allow students to advance at their own pace?
	Science(3) Social Studies
(4) Language Arts (Inc. Reading)	
(6) Foreign Language	
(O) I ofeigh Language	(7) Other. Please specify
TTT. On what basis does a student move from	n one level to another?
(1) Standardized tests	(2) Teacher made tests
(3) Demonstrated competency	(4) Other. Please specify
UUU. What percentage of students are function	oning above grade level in one or more content areas this
year?	siming above grade level in one of more content areas tills
•	(3) 11-20%(4) More than 20%
(3) 10/0	(3) 11 20 %(4) Wore than 20 %
VVV. How would you describe the continuou	is progress program?
	(2) Individual instruction
(3) Other. Please specify	
WWW. How long has the continuous progress(1) Less than 5 years(2) £	



eifies, we refer to the Advanced
acement Courses?(3) More than 10 years
courses?(4) Chemistry
nguage/Composition (10) Latin
(10) Latin
(14) Spanish
ourse last year? List the number
(3) Seniors
mination last year? List the(3) Seniors
(3) "5"
lependent study
rrespondence courses
· · · · · · · · · · · · · · · · · · ·
gement which allows a student to
:(3) Science



XI.	NONGRADED SCHOOL. We define a nongraded school as one in which the usual labels, such as first grade, have been removed, and students progress at their own pace. Thus, one child might complete what is normally covered in one grade in less than the usual amount of time, and another child might require more than the usual amount of time to gain the skills generally acquired in one year in a graded school system.				
	XXX. At what level(s) is your district nongraded?  (1) Pre-School  (3) Middle/Junior High School  (4) Senior High School				
	YYY. Do some students complete the level(s) checked in fewer years than is normally required?(1) Yes(2) No				
	<ul> <li>ZZZ. If you answered "Yes" how many students:</li> <li>(1) Received additional enrichment only</li> <li>(2) Were offered curricula from the next higher level but did not leave the first school</li> <li>(3) Moved on to the next higher school</li> </ul>				
	AAAA. How long has your district been nongraded?(1) Less than 5 years(2) 5-10 years(3) More than 10 years				
XII.	MODERATE ACCELERATION. We define moderate acceleration as any kind of provision which allows a student to complete the grades K-12 in less than thirteen years but more than ten.				
	BBBB. How many students were in last year's graduating class?(1) Less than 100(2) 100-500(3) More than 500				
	CCCC. Of this number, how many spent fewer than 13 years but more than 10 in grade K-12?(1) Less than 2%(2) 2-5%(3) More than 5%				
	DDDD. How long has your school had a policy which allowed or encouraged moderate acceleration?  (1) Less than 2 years  (2) 2-5 years  (3) More than 5 years				
XIII.	RADICAL ACCELERATION. We define radical acceleration as any kind of provision which allows a student to complete grades K-12 in fewer than 11 years.				
	EEEE. How many students were in last year's graduating class?(1) Less than 100(2) 100-500(3) More than 500				
	FFFF. Of this number, how many spent fewer than 11 years in grade K-12?(1) Less than 1%(2) 1-2%(3) More than 2%				
	DDDD. How long has your school had a policy which allowed or encouraged radical acceleration?(1) Less than 2 years(2) 2-5 years(3) More than 5 years				



classes on two campligh combination combination nation	puses last year? P	lease specify the numbers.
ses at both the middl	e/junior high and s	enior high, what percentage
<b>-75%</b> (3)	76-99%	_(4) 100%
asses at both the mi	ddle/junior high ar	nd college, what percentage
-75%(3)	76-99%	_(4) 100%
-75% <u>      (</u> 3)	) 76-99%	(4) 100%
m for gifted student	s not listed in any	of the above sections, pleas
	-75%(3) asses at both the mi -75%(3) classes at both a sen -75%(3)	asses at both the middle/junior high are asses at both the middle/junior high are asses at both a senior high school and are asses at both a senior high school and are asses at both a senior high school and are assessed as a senior high school and are as a senior high school are as a senior high school and are as a senior high school and are as a senior high school and are as a senior high school are as a senior high school and a senior high school are as a senior high school are as a senior high school and a senior high school are as a senior high school are as a senior high school and a senior high school are as a senior high school are as a senior high school and a senior high school are as a senior high sc

XVI. CONCURRENT OR DUAL ENROLLMENT. We define concurrent or dual enrollment as an arrangment

which allows a student to enroll in classes on two campuses. For example, a middle/junior high student who

Thank You!

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