Action Research in the K to 12 Basic Education Program

John Kelvin R. Briones
Senior Education Program Specialist
Bureau of Curriculum Development
Outline of the Presentation

1. Motivations in Conducting Action Research (legal bases, issuances, professional demand, curricular and political response)

2. Nature of Action Research (definition and description)

3. Processes in Conducting Research (BERF)

4. Suggested Topics for Action Research

5. Open Forum
• The Department of Education is mandated to enact policies and mechanisms on the basis of “educational research and studies.”
The DepEd shall maintain the “relevant, responsive, and research-based” nature and characteristic of the curriculum.
Revised Guidelines on the Appointment and Promotion of Other Teaching, Related Teaching and Non-Teaching Personnel

# Revised Guidelines on the Appointment and Promotion of Other Teaching, Related Teaching and Non-Teaching Personnel

## Teaching and Related Teaching Group

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance</td>
<td>35</td>
</tr>
<tr>
<td>Experience</td>
<td>5</td>
</tr>
<tr>
<td>Outstanding Accomplishments (Meritorious Accomplishments)</td>
<td>20</td>
</tr>
<tr>
<td>Education</td>
<td>25</td>
</tr>
<tr>
<td>Training</td>
<td>5</td>
</tr>
<tr>
<td>Psycho-social attributes</td>
<td>5</td>
</tr>
<tr>
<td>Potential</td>
<td>5</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

### c. Research and Development Projects
- Action research conducted in the school level
- Action research conducted in the district level
- Action research conducted in the division level

### d. Publication/Authorship
- Articles published in a journal/newspaper/magazine of wide circulation
- Co-authorship of a book
  (shall be divided by the number of authors)
- Sole authorship of a book
c. Research and Development Projects (10 points)
   Action research conducted in the school level - 6 pts.
   Action research conducted in the district level - 8 pts.
   Action research conducted in the division level - 10 pts.

d. Publication/Authorship (5 points)
   Articles published in a journal/newspaper/magazine of wide circulation - 2 pts.
   (per article but not to exceed 4 pts.)
   Co-authorship of a book - 4 pts.
   (shall be divided by the number of authors)
   Sole authorship of a book - 5 pts.
Department Order No. 39, s. 2016

- Teaching and Learning
- Child Protection
- Human Resource Development
- Governance

- Gender and Development
- Disaster and Risk Reduction Management
- Inclusive Education

Basic Education Research Agenda
More Research in Filipino

- The low achievement of students in Filipino is compelling enough to conduct research in improving instruction.

<table>
<thead>
<tr>
<th>National Achievement Test 2013 – Grade 6</th>
<th>National Achievement Test 2014 – Grade 6</th>
<th>National Achievement Test 2015 – Grade 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>72.41</td>
<td>76.18</td>
<td>68.90</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>National Achievement Test 2013 – Grade 10</th>
<th>National Achievement Test 2014 – Grade 10</th>
<th>National Achievement Test 2015 – Grade 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>58.04</td>
<td>56.83</td>
<td>59.29</td>
</tr>
</tbody>
</table>
• Decline in the teachers performance in delivering the content, as shown by a research conducted by RCTQ-PNU, is another motivation to conduct action research.
## Contribution to Curriculum Evaluation

### Types of Curriculum

- Official, National Core, Intended Curriculum
- Implemented Curriculum
- Achieved Curriculum
- Experienced Curriculum
- Hidden Curriculum
• Searching ‘action research’ on Google will give you approximately 49,700,000 results, as of 28 Oct. 2017, 10:18am.
“Action research is a systematic, reflective inquiry to improve educational practices or resolve problems in any operating unit (i.e. school, classroom, office).”
“Action research is a form of investigation designed for use by teachers to attempt to solve problems and improve professional practices in their own classrooms. It involves systematic observations and data collection which can be then used by the practitioner-researcher in reflection, decision-making and the development of more effective classroom strategies.”

• “Action research is a natural part of teaching. Teachers are continually observing students, collecting data and changing practices to improve student learning, the classroom, and the school environment. Action research provides a framework that guides the energies of teachers toward a better understanding of why, when, and how students become better learners and how they can still become better teachers/facilitators of learning.”

“Action research is about practitioners creating new ideas about how to improve practice... [which] is different from traditional social science, which is about official researchers producing theory, which [then] practitioners apply to their practice. [This immediately puts us] in context of power and politics around the struggle for knowledge and recognition as knower.”

Jean McNiff and Jack Whitehead, *All You Need to Know About Action Research*, 2006
• The goal is the involvement of both research specialist and classroom teacher in the study and application of research to educational problems in a particular classroom setting.

• Its purpose is to improve the practices: to combine the research processes, habits of thinking, ability to work harmoniously with others and professional spirit.

• It also focuses on immediate application, not on development of theory or on generalization of applications.
OTHER BENEFITS OF ACTION RESEARCH

Gay and Airasian, as cited by Hien, 2009

• 1. Teachers investigate their own practice in new ways, looking deeper in what they and their students actually do and fail to do.

• 2. Teachers develop a deeper understanding of students, the teacher learning process and their role in the education of both teachers and students.

• 3. Teachers are viewed as equal partners in deciding what works best and what needs improvement in their classroom or classrooms.
# Format of Action Research

**Department Order No. 16, s. 2017**

- Context and Rationale
- Action Research Questions
- Proposed Innovation, Intervention and Strategy
- Action Research Methods
  - Participants and/or other sources of data and information
  - Data gathering methods
  - Data analysis plans
- Action Research Work Plan and Timelines
- Cost Estimates
- Plans for Dissemination and Utilization
- References
FORMAT OF ACTION RESEARCH

- **Context and Rationale**

  - Description of situation where the problem originated, how the problem was discovered, circumstances that revolve around it (e.g. results of achievement tests/formative assessment)
  - Importance and necessity to resolve the problem
  - Benefits of conducting the research to the people involved
Does drawing or sketching prior to writing enhance learning?

How do the arts increase reading comprehension?

Will access to a nutritious morning snack reduce behavioral problems in the classroom that are caused by children’s hunger?

Does storytelling increase creative writing ability?

Does best-practice teaching improve student outcomes in and attitudes toward science?

How do read alouds motivate students to read independently?

What strategies can I use to become an effective classroom manager?

What factors increase teacher attendance/ improve punctuality/ performance?
<table>
<thead>
<tr>
<th>Proposed Innovation, Intervention and Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>• <strong>Instructional strategy or intervention</strong> to solve the problems in the class/school that will enhance and improve outcomes</td>
</tr>
</tbody>
</table>
• Participants and/or other sources of data and information
• Data gathering methods (interviews, FGDs, observations, surveys, checklist, rubrics, video and audio recordings, students’ output, attitude scales)
• Data analysis plans
### FORMAT OF ACTION RESEARCH

<table>
<thead>
<tr>
<th>Action Research Methods – Improving Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Learning</td>
</tr>
<tr>
<td>Adaptive Learning Environments Model</td>
</tr>
<tr>
<td>Alternative to Recitation</td>
</tr>
<tr>
<td>Buddy System</td>
</tr>
<tr>
<td>Computer-Assisted Instruction</td>
</tr>
<tr>
<td>Character Analysis</td>
</tr>
<tr>
<td>Cloze Procedure</td>
</tr>
<tr>
<td>Collaborative Learning</td>
</tr>
<tr>
<td>Collective Notebook</td>
</tr>
<tr>
<td>Comic Books</td>
</tr>
<tr>
<td>Completed Work Chart</td>
</tr>
<tr>
<td>Cooperative Learning Model</td>
</tr>
<tr>
<td>Group Discussion</td>
</tr>
<tr>
<td>Discussion Web</td>
</tr>
<tr>
<td>Dissections</td>
</tr>
<tr>
<td>Dissections</td>
</tr>
<tr>
<td>Experimental Inquiry</td>
</tr>
<tr>
<td>Discovery Teaching</td>
</tr>
<tr>
<td>Dramatizing</td>
</tr>
<tr>
<td>Cooperative Integrated Reading and Composition</td>
</tr>
</tbody>
</table>
FORMAT OF ACTION RESEARCH

Action Research Methods – Improving Instruction

- Drawing
- Dream Diary
- Error Analysis
- Cooperative Dyads
- Experiential Learning
- General-to-Specific Sequencing
- Generative Learning Model
- Graphic Organizer
- Group Investigation
- Independent Practice
- Independent Reading Programs
- Induction Matrix
- Inductive Inquiry
- Logical Cycle of Inductive Inquiry
- Inductive Thinking
- Open Text Recitation
- Jumbled Summary
- Nutshelling
- Inside-Outside Circle
- Instant Messenger
- Note-Taking
- Open Discussion
- Opinion Sampling
- Paired Comparisons
- Scripted
- Semantic Associations
- Semantic Feature Analysis
- Spiral Sequencing
## FORMAT OF ACTION RESEARCH

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Submission of Work Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preparation of Data Collection Instrument</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Collection Activities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Analysis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial Findings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final Report</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submission and Acceptance from the National Research Committee</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Policy Brief/Policy Note and Publication and Dissemination</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Action Research Work Plan and Timelines
### FORMAT OF ACTION RESEARCH

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
<th>Number</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation</td>
<td>P700</td>
<td>30</td>
<td>P21,000</td>
</tr>
<tr>
<td>Food</td>
<td>P9,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Books</td>
<td>P300</td>
<td>30</td>
<td>P15,000</td>
</tr>
<tr>
<td>Office Supplies</td>
<td>P500</td>
<td>30</td>
<td>P5,000</td>
</tr>
<tr>
<td>Communication</td>
<td>P200</td>
<td>30</td>
<td>P4,500</td>
</tr>
<tr>
<td>Printing and Photocopying</td>
<td>P150</td>
<td>30</td>
<td>P10,000</td>
</tr>
<tr>
<td>Contingency Fund</td>
<td></td>
<td></td>
<td>P10,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P74,500</td>
</tr>
</tbody>
</table>
• Research output will be published either as part of a series of journal articles or in book form with the help of prestigious university publishing houses in the Philippines. Policy notes/briefings will be made available to legislators and other government officials. Through the help of stakeholder organizations, forums will be conducted in various parts of the country to share the research findings.
• The DepEd-CI suggests the use of Chicago Manual of Style
• The Malacañang Style Manual operates using the Chicago Manual of Style
• The Policy, Planning and Research Division of DepEd does not require a specific citation style
Sample Action Research Projects in Antipolo City, Region 4-A

- Profiling of Students Vulnerability in Drug Involvement in Mayamot National High School, School Year 2016 – 2017
- Early Grade Reading Assessment (EGRA) in Grade Three Filipino Basis for Intervention SY 2017-2018
- Ang Pamamaraan ng Pagsulat ng Makabagong Henerasyon: Kawalan ng Formalidad, Huwad sa Kaalaman, Di Katanggap-Tanggal sa Mundo ng AkaDEMYA – Kaso ng ANHS 2016-2017
- Kaugnayan ng Katangiang Propesyonal ng mga Guro sa Kanilang Kakayahang Magtuuro ng Asignaturang Filipino
- Educational Needs of Dumagat Tribe in Antipolo City: Basis for a Special Educational Program Development
- Development of a Localized Learning Material in Science: For the Enhancement of Educational Performance For Senior High School of Mayamot NHS 2017-2018
Sample Action Research Projects in Antipolo City, Region 4-A

- THE EFFECTS OF TAKE HOME ACTIVITY SHEETS (TAKHAS) AS AN INTERVENTION TO THE PERFORMANCE OF THE GRADE 10 STUDENTS WITH HIGH ABSENTEEISM RATE

- MGA EPEKTO SA PAGGAMIT NG CELFONE NG PILING MAG-AARAL SA IKAPITONG BAITANG BILANG KASANAYAN SA PAGSULAT

- OPEN HIGH SCHOOL PROGRAM EXPERIENCE IN ANTIPOLYO CITY AS BASIS OF ADM-OHSP IMPLEMENTING GUIDELINES

- AFDAL ALMUMARASAT IN PHILIPPINE MADRASAH: BASIS FOR DEVELOPING THE MUSLIM EDUCATION ROADMAP IN THE PHILIPPINES.
Suggested Themes and Topics for Action Research

- Time allotment for learning areas, subjects, competencies
- Contextualization of learning competencies
- Integration of important emerging themes and concepts
- Improvement of delivery of content by exploring instructional designs
## Suggested Template for Action Research

<table>
<thead>
<tr>
<th>Problem</th>
<th>Hypothesis</th>
<th>Intervention</th>
<th>Participants</th>
<th>Data Gathering Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FORMAT OF ACTION RESEARCH

- Context and Rationale
- Action Research Questions
- Proposed Innovation, Intervention and Strategy
- Action Research Methods
  - Participants and/or other sources of data and information
  - Data gathering methods
  - Data analysis plans
- Action Research Work Plan and Timelines
- Cost Estimates
- Plans for Dissemination and Utilization
- References
Thank you!
FORMAT OF ACTION RESEARCH

LISTAHAN ng mga PANGARAP

Policy Development,
- Review & Revise PDP
- Map & Code DO in DepEd website
- Map all DOs & identify process owners
- Review, revise & IMPLEMENT policy compliance monitoring tool
- BE Policy Agenda

Research Management
- Review & Revise BERT DO R. 2017
- Review & revise BERT Tracking Mechanism
- Research Bulletin for all DepEd offices
- Issue policy on BE Research Agenda
- Establish exchange program with academi.
- Establish exchange program with academi.
- Research institutions
- Standard for acceptance of final reports
- Database of research final reports

Sector Monitoring & Evaluation
- Issue policy on SME
- Establish a vertical & horizontal SME System
- SME bulletin for all DepEd offices
- Develop monitoring tools
- Evaluation Agenda