Department of Agriculture - Integrated Pest Management
Alignment to *Maine Learning Results: Parameters for Essential Instruction and Common Core Standards*

ELA = English Language Arts,   HE/PE = Health Education and Physical Education,   MA = Mathematics,   SCI = Science,   SS = Social Studies,   VPA = Visual and Performing Arts,
** Alignment possible only if lesson extension is done.

Lesson	IPM Grade/ Grade Span	MLR Grade/ Grade Span	Maine Learning Results	Common Core Standards for English and Mathematics

Bug Busters	Grades 2-3	PreK-2	ELA – Reading Informational Texts
			   A3. Students read informational texts, within a grade appropriate span of text complexity, for different purposes.
			      b. Restate facts from the text.
			   B. Writing
			   B3. Students write to inform an audience on a specific topic.
			      b. Record and share, in writing, information that has been gathered.
			
			MA – B. Data
			   **B2. Data Analysis – Students read, construct, and interpret picture graphs.
			
			(**Extension: Students show tally results in a picture graph.)
				ELA - **Reading Standard for Informational Texts Grade 2:**
				5. Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently.
				
				MA – **Grade 2: Measurement & Data – 2MD10**
				   10. Draw a picture graph and a bar graph (with single unit scale) to represent a data set with up to four categories. Solve simple put-together, take apart, and compare problems using information presented in a bar graph.

		Grade 3	ELA – Reading Informational Texts
			   A3. Students read and summarize informational texts, within a grade appropriate span of text complexity, for different purposes.
			      c. Identify answers in the text or important ideas to demonstrate understanding.
				ELA - **Reading Standard for Informational Texts Grade 3:**
				5. Use text features and search tools (e.g., key words, sidebars, hyperlinks) to locate information relevant to a given topic efficiently.

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| Bug Busters   *Cont.* | | | Grades 3-5 | ME – B. Data
**B2. Data Analysis –
    (Grade 3) Students read, construct, and interpret
     bar graphs.
    (Grade 4) Students collect and represent data in
     tables, line plots, and bar graphs, and read and
     interpret these types of data displays.
    (Grade 5) Students read, construct, and interpret
     line graphs.

(**Extension 3rd: Students show tally results in a bar graph.)

(**Extension 4th: Students show tally results in a bar graph.)

(**Extension 5th: Students show tally results in a line graph.)

SCE – A. Systems
  A1. Students explain interactions between parts that make
        up the whole man-made and natural things.
        a. Give examples that show how individual parts or
           organisms, ecosystems, or man-made structures can
           influence one another.
        b. Explain ways that things including organisms,
           ecosystems, or man-made structures may not work
           as well (or at all) if a part is missing, broke, worn
           out, mismatched, or misconnected. | MA - *Grade 3*: Measurement & Data – 3MD3
  3. Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "hoe many less" problems using information presented in scaled bar graphs. |