<table>
<thead>
<tr>
<th>Title</th>
<th>What kind of graph has whiskers?</th>
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| Grade | 7 |
| Topic | STATISTICS |

| Standard, Benchmarks & I can statement | **Standard 12: Data Analysis, Statistics, and Probability:**
STATISTICS: Interpret data using methods of exploratory data analysis
**Benchmark: MA.7.12.1:** Relate the spread of a data set to a box-and-whisker plot
**I can** (Benchmark restated): I can explain how the spread of a data set relates to a box-and-whisker plot. |

| Outcome | Create a matching game using box-and-whisker plots. |
| Time Recommended: | Two 45 minute class periods |

| Materials needed: | **Printing:** Students will need to print their box plots and Analysis Statement cards (4 pages per student)
**Software –** computers need Java
**Materials-** scissors
**Skills** – Students should know how to use PowerPoint |

| Vocabulary: | Box-and-whisker plot – Pakuhi pahu me ka `umi`umi
Median - helu kuwaena
Quartile – no translation |

| Hawaiian vocabulary: | |

| Options: | ▪ To make the WebQuest go more quickly, the teacher can select a few data sets for the students to choose from rather than having to search through the whole Data Book.
▪ Direct students to the Education section because it has many data sets that could be displayed in a box-and-whisker plot
▪ To differentiate have advanced students create double box-and-whisker plots like in the video on dog size (note: this would have to be done with a different program then the box plot maker provided or by hand) |

| Tips | ▪ **Homework** – Students could print the completed box plot slide and the blank Analysis Statement slide and hand write the statements outside of class.
▪ **Homework** - Students can answer the reflection questions as homework following their completion of the product. Be sure to have them return to the WQ to complete the feedback.
▪ To conserve paper, have students use the print screen function to put all three box-and-whisker plots on one PowerPoint slide. |