Teaching Physics with the Physics Suite

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  Students need to get used to Tutorials.
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  ABP Tutorials are mathematically and technologically oriented.
  Concept learning can be tied to the use of math.
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RTP relies on psychological calibration of technology.
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In PbI, students learn a few topics deeply.
Students may need help in changing their expectations for PbI.
Evaluations of PbI show it to be very effective.

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Students in WP build their concepts using technology.
WP is developed through and informed by education research.
WP changes the frame in which students work.
Evaluations of WP show it to be highly effective in building concepts.

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  The Vector Evaluation Test (VET)
  Test of Understanding Graphics (TUG-K)
  Force Concept Inventory (FCI)
  Force-Motion Concept Evaluation (FMCE)
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  The Electric Circuits Concept Evaluation (ECCE)
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  Wave Diagnostic Test (WDT)
  Determining and Interpreting Resistive Electric Circuits Concept Test (DIRECT)
  The Small Particle Model Assessment (SPMA)
  The Measurement Uncertainty Quiz (MUQ)
  Maryland Physics Expectations Survey (MPEX)
  The Views about Science Survey (VASS)

Bibliographic Resources

Useful Books: A list of books that contain discussions of student learning, innovative teaching methods, and interesting problems.