

Learning Through Experimenting

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IMPRESSE

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Some principles of learning

- ❑ Start from where the learner is
- ❑ Learners must be active in the learning process
- ❑ Learners need to talk about their ideas

P Black & C Harrison (2004)
Science inside the black box. nferNelson

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Some Principles

Pupils need:

- ❑ A motivating stimulus which creates a sense of purpose for the investigation
- ❑ Activities that promote thinking and talking about their ideas
- ❑ Opportunities for collaboration and talk
- ❑ Problems to solve, rather than instructions to be carried out

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EFFECTIVE STARTING POINTS

Pose problems



Get pupils talking



Get pupils thinking



Make pupils want to investigate

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Effective starting points include:

- ❑ Interesting objects
- ❑ Everyday settings
- ❑ Sharing other people's ideas
- ❑ Concept Cartoons
- ❑ Predict Observe Explain
- ❑ True false statements
- ❑ Creative thinking, drawing, design
- ❑ Stories

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