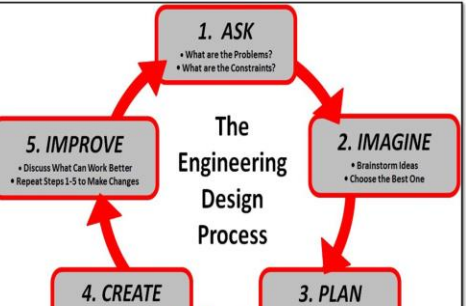
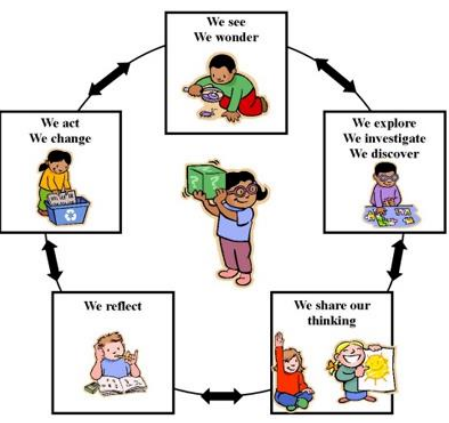


SCIENCE is a **WHER**

What is the inquiry cycle?



IS IT A PROJECT OR IS IT PROJECT-BASED LEARNING?

PROJECTS	PROJECT-BASED LEARNING
Can be done alone	Requires collaboration and teacher guidance
About the product	About the process
Teacher-directed	Student-directed
All projects have the same goal	Students make choices that determine the outcome
Products are submitted to the teacher	Products are presented to an authentic audience
Lack real-world relevance	Based in real-world experiences or problems
Occur after the "real" learning	Real learning occurs through the project

educationcloset

TOUCHING THE FUTURE

Art Kimura
 Education Specialist, Hawaii Space Grant Consortium
 Presidential Award for Excellence in Science Teaching, 1983
 NASA Teacher in Space finalist, 1984
 retired DOE science teacher, McKinley High School

Rene Kimura
 retired elementary and middle school teacher
 Women in Aerospace national Educator of the Year award, 2011
 Art and Rene Kimura, Living Treasures of Hawaii 2014

Inspiring and equipping the next generation of explorers

Education for the Human Made World

The natural world gives us pause to ask questions.

How are rainbows formed? Why is the sky blue? How does a tree grow from a small seed? What is the impact of invasive species? Why do we have growing sea level rise? Is there life in the universe? Can we live on Mars? Can you light a bulb with a battery, wire and bulb in 4 different ways? Do you know why airplanes and birds can fly? How do astronauts use the bathroom in space?

We live in a human made world for more than 90 per cent of our lives. Students need to "do" science and not just read about science...students need the tools to become innovators for a world that is not yet defined. Students need to have experiences in scientific inquiry and in the engineering design process, and seek outcomes for a burning question via project based learning.

How do you train students for jobs that haven't been created yet?

Teach them the skills they will need now.