How today’s students learn SCIENCE

Observing, posing questions, making sense of real-world objects and events (phenomena)

Whoa! Why does my hair stand up when I touch the machine?

In physics class, Jenny can’t wait to investigate what makes her hair stand on end.

Designing solutions using engineering and technology

Darn! I need to modify my design.

After many design changes, Deja built the strongest bridge in the class.

Developing models to explain real-world objects or events

Any critiques from the class?

What’s your evidence, Carlos?

Meanwhile, in Ms. Sturgeon’s Earth science class, Carlos explains how some mountains form.

Planning and carrying out investigations and analyzing data

How many measurements should you make?

3 from different areas of the pond

What did we specify in our investigation plan?

Students investigate the quality of water in a nearby pond.

Discussing, explaining, and using evidence for ideas

I kick the red ball...

...but then pow...

...the blue ball starts moving and that means energy was transferred to it.

In the gym, Bobby demonstrates and explains his ideas about energy transfer.

NEXT GENERATION SCIENCE STANDARDS Pathway to Success

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