



TRANSFORMING ENERGY WITH STYLE

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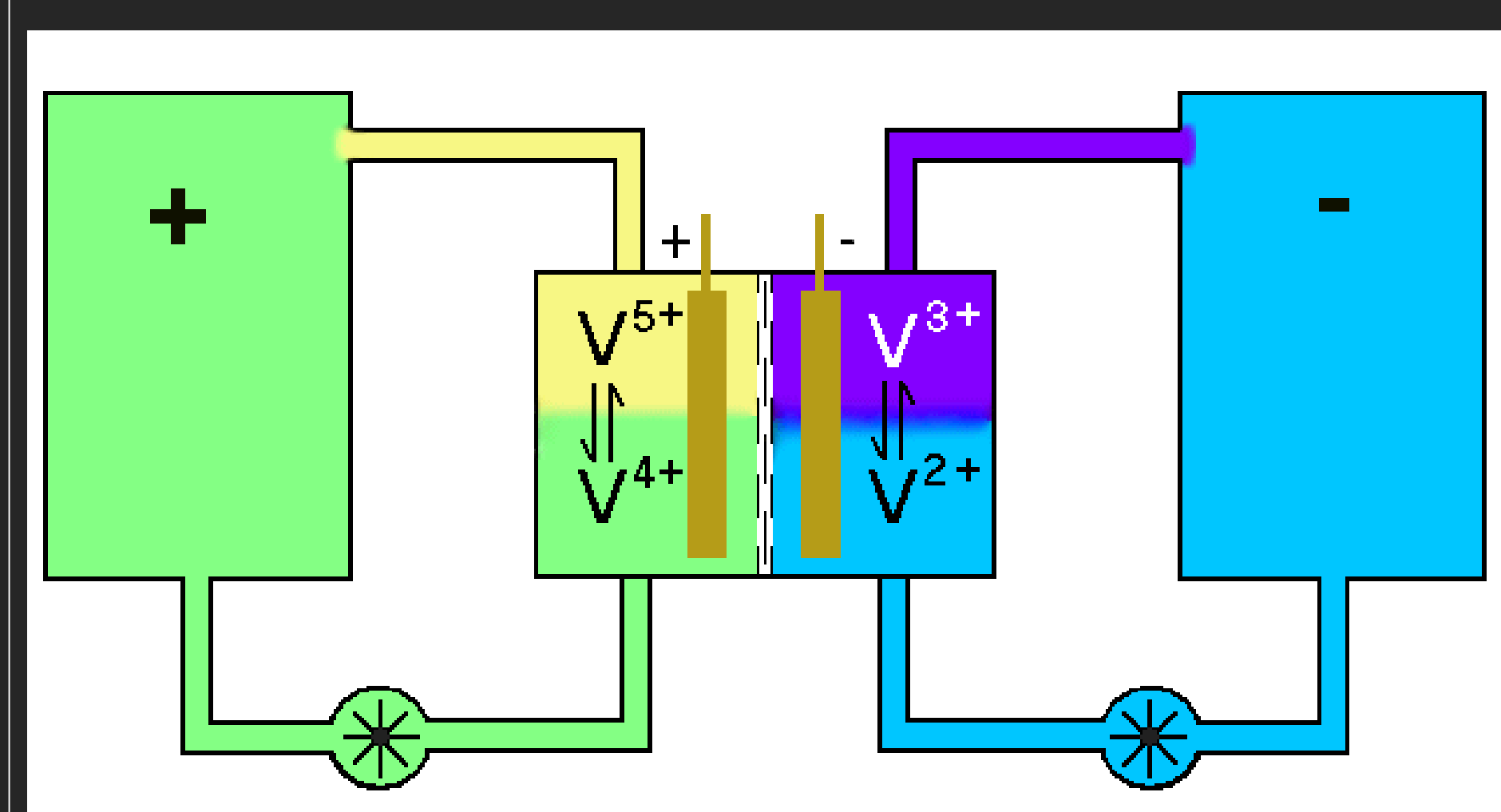
LAKOTA EAST HIGH SCHOOL, 9TH GRADE PHYSICAL SCIENCE



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What I Did this summer...

Researched Vanadium Redox Flow Batteries (VRFB)



VRFB provide storage systems for renewable energy sources.



We need to protect the environmental.



How do we tackle the challenge... Engineer it!

Know

- Needs
- Problems
- Issues



Create

- All ideas count.
- Nothing is criticized.

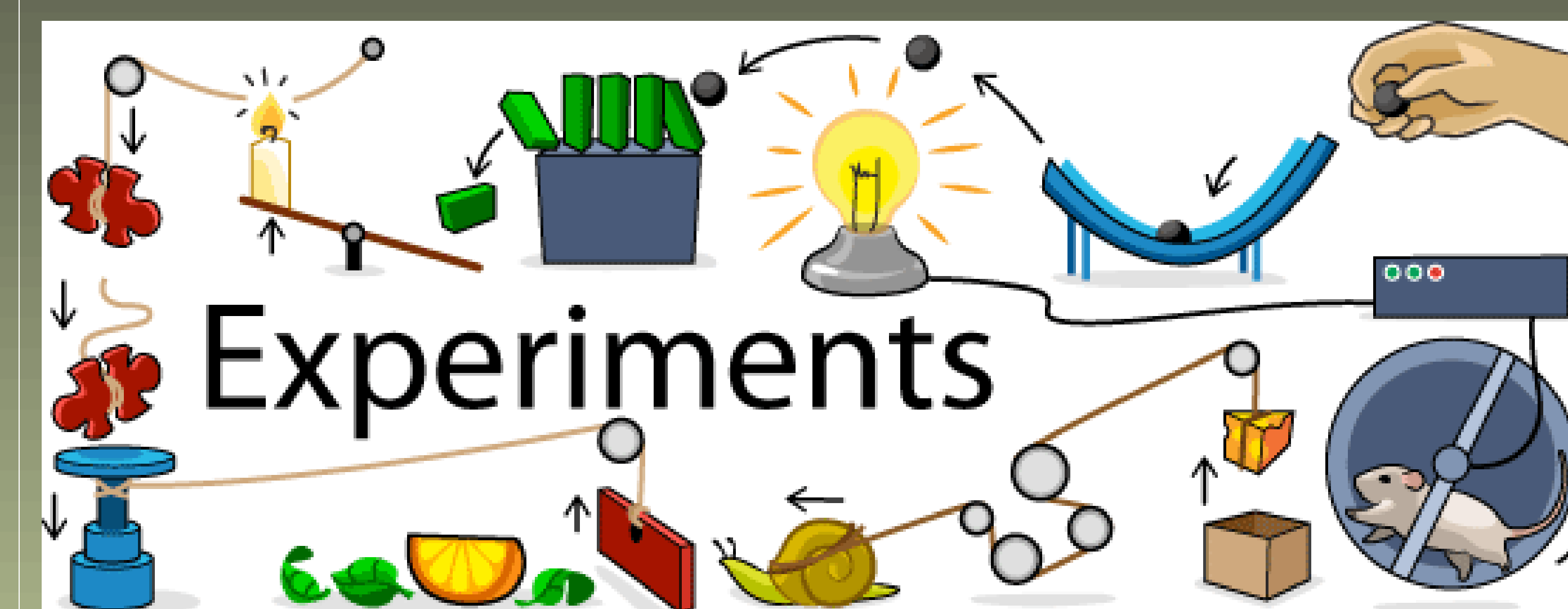


Test Ideas

- Create models
- Experiment
- DON'T QUIT

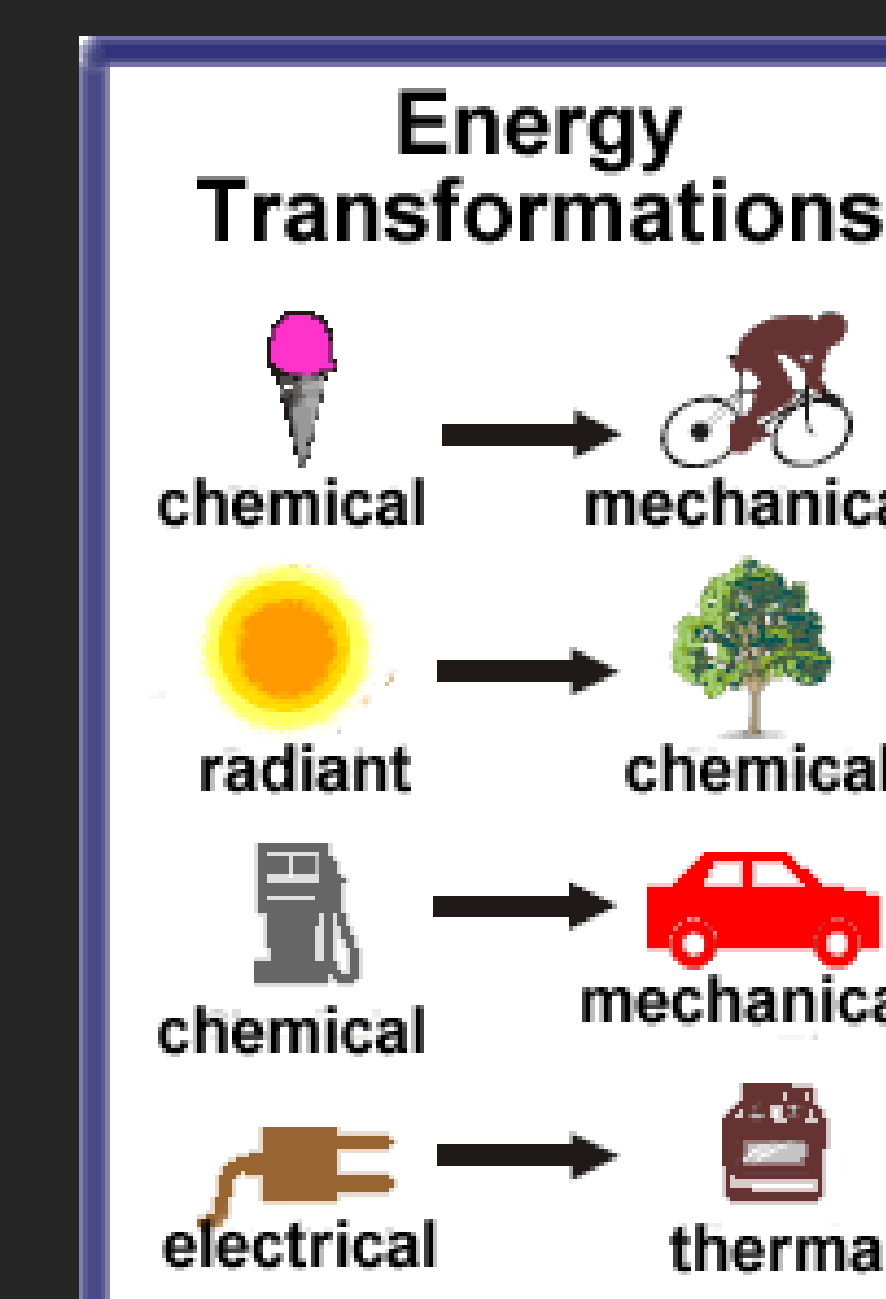
Revise Ideas

- Modify
- Try again
- DON'T QUIT



What do we need to know...

Energy transformation



Energy Conservation



Forms of energy



Quantifying Energy

$$E_p = mgh$$

$$E_k = \frac{1}{2}mv^2$$

For acknowledgement of picture sources contact
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