

Exploding Stick Bomb

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<https://www.youtube.com/watch?v=pR170XAbvHQ>

Purpose:

- ★ Learn about potential and kinetic energy with this cool creation and other

Materials:

- Crafts sticks
- Rubber bands

Procedure/Task:

1. Before you begin, set up a long trail of sticks as shown in the tutorial. (If you can, weave it all throughout the classroom to watch the release of energy happen).
2. When kids enter classroom, tell them to be careful with the sticks that are scattered around the ground and that you would explain later
3. Give each kid 15 sticks and tell them to keep them safe and we would use them later
4. Explain very briefly how potential and energy works with a stick
5. Bend stick - potential energy
6. Release and launch stick w/o hurting the kids - kinetic energy
7. Do the same with the rubber band
8. Explain the same with throwing either
9. Ask them what would happen if there was a ton of potential energy spread out
10. Explain to them what the sticks were for and tell them that they would be creating their own miniature versions of that for the rest of the session
11. Release the stick that holds all the potential energy, allow the kids to watch the snake chain travel throughout the classroom.