

## MechLife: Educator Resources, 2

**Note to Educators:** The aim of this Educator Resource Page is to allow space for your students to explore and express their interests and strengths. Encourage each of your students to complete the activities and reflections in a personalized fashion. Perhaps your student has access to a smart phone—then they could take pictures or videos of their work and share them with you. Or perhaps you and your student could connect virtually, and they could show you in real time what they have created or written. Let the creativity flow!

### Future Ready PA Index

- | Standards |   |
|-----------|---|
|           | <ul style="list-style-type: none"><li>• CEW Standards: 13.1; 13.3</li><li>• Artifacts: 13.1; 13.3</li></ul> |

### Introduction

- Prior to your students playing MechLife, have them watch the trailer for the game on YouTube: <https://www.youtube.com/watch?v=MBhp9s4Guk8&feature=youtu.be>
- Instruct students to download MechLife and play.

### Extension Activities

- **Make your own! (Mathematics 2.3 & 2.4; CEW 13.1)**
  - In the game, Bob answered questions and solved problems using things around him. Can you create your own questions or challenges for Bob to solve?
    - Objects used or referenced in MechLife:
      - Jenga pieces
      - playground slide
      - cereal box
      - magnets
      - clock
      - tape measures/rulers
    - Concepts referenced in MechLife:
      - pyramid structures
      - weight distribution
      - gear movement
      - spatial reasoning
  - Create at least ONE additional challenge using the objects from the game or something else around you right now. Consider how Bob could use something like paper clips, a pen, a fork, or a pillow to solve a problem in his apartment. Or perhaps challenge Bob to put a lot of clothes in a small closet. Or maybe Bob needs to pull his car into a parking spot.
- **More questions for Bob! (Mathematics 2.3 & 2.4)**
  - At the end of the game, you took the quiz that Bob took. Create at least ONE question that could be added to the quiz.
  - Try writing a question using spatial reasoning, measurements, or weight distribution.



### Reflection Prompts

1. In 5-7 sentences, answer the following prompt: **(artifact connected to CEW 13.1)**
  - a. Playing MechLife uses measurement, weight distribution, and real-world math problems. Do you think you would enjoy a career that requires these skills? Why or why not?
2. In 5-7 sentences, answer the following prompt: **(artifact connected to CEW 13.1; 13.3)**
  - a. Now that you've spent some time helping Bob with these challenges in MechLife, look around you for something that Bob could help with now that he is going to be working at Hanty Manufacturing. Explain what you would ask Bob to help with and why you think he would be able to do that with his skills in spatial reasoning, measurement, and mathematics entering one of these careers, how would you continue your education throughout your career?