

HBCSD TECHNOLOGY LESSON PLAN

8th GRADE (Lesson 3)

Grade Level - 8

Lesson Title - Design Your Own Newton's Law Comic Strip

Standards

[MS-PS2-1](#). Apply Newton's Third Law to design a solution to a problem involving the motion of two colliding objects.

Technology Competencies

- Computer Identification/Skills 3-6, 9
- Application Skills 10-18
- Publishing 40, 42
- Research/Information Access 44-47
- Societal/Ethical Issues 48, 49, 51

Purpose

Students will study Newton's Laws and design their own online comic strip to present to the class.

Resources

<http://www.makebeliefscomix.com/Comix/>
<http://www.readwritethink.org/parent-afterschool-resources/games-tools/comic-creator-a-30237.html>
<http://www.fmschools.org/webpages/nkirby/files/newton's%20laws%20comic%20strip%20example-%20olivia%20r.pdf>
http://www.thecomicstrips.com/store/add_strip.php?iid=89534
<http://www.physicsclassroom.com/class/newtlaws/>

Supplies

- Internet accessible computers
- Drawing Software like PhotoShop, Paint, or SketchUp OR Free Online Comic Strip Programs
- Network printers
- Paper
- Pencils

Direct Instruction

1. Review standards for computer use, Internet search procedures, and publishing skills
2. Remind students about computer safety, saving files, and printing procedures
3. Review all three of Newton's Laws
4. Introduce concept of designing an online comic strip and requirements
5. Show sample comic strips and model how to design one on paper or online

Guided Practice

1. Students create a rough comic strip representing Newton's Third Law on paper
2. Students create online comic strip, saving often into approved medium (network file folder, individual flash drive, etc)
3. Students print comic strip (home/school depending on capability)

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Differentiated Instruction

EL - pair with partner, allow proofreading by either teacher or student mentor, make requirements less rigid
GATE - expand into how the adapted animal works within its own species, expand into the concept of animal rotation where different types of animals occupy the same space at different times

Assessment

Rubric should be provided prior to guided practice. Teacher can grade based on process, content accuracy, appearance, and project completion.