



Understanding  
Our World

Grade One

# All Systems Go



## Managing the Complexity of Systems

This Super Unit is a structured inquiry into helping the learner understand the world around them. Learners will manage the complex systems of our world. Learners will be empowered to improve the effectiveness and efficiency of the systems in our world. Learners will develop their ability to do systems thinking.

# Systems are made of 1



## Highlights of Learning Experiences

Launch: “Assembly Gone Wrong”

Field Trip: Vietopia

Guest Speaker: Food Service Workers from the Phu My Hung Community

Project: Students will develop a system that uses human systems and mechanical systems to meet a goal

Core Values (describe the key concepts)

- Academic Excellence - Foundational knowledge, collaboration, self-management, critical thinking
- Sense of Self - Sense of community

SuperUnit Celebration: Parents will visit the school to participate in the system the students have developed



## Focus on Learning by Subject

Science: Identify and explore simple machines

Social Studies: Discuss human systems in our community and create a human system to attain a goal

English: Write Realistic Fiction Stories that feature human and/or mechanical systems

Math: Understanding Shapes and Fractions

PE: Learn how different roles working together makes sporting teams more effective

Art: Create a stand-alone sculpture using simple machines

Drama: Discover how a play uses systems to entertain and inform audiences

Music: Use different musical systems to perform choral pieces for an audience

Library: Learn how the systems in the library make our work easier

Vietnamese: Practice language we use in human systems like cafes, restaurants, or in an airport

# parts working together.



## Questions to Ask your Child

- What is a human system?
- What is a mechanical system?
- What is a simple machine?
- How are machines helpful to humans?
- What are some systems (human or mechanical) that we have in our community?



## Home Learning

- Watch videos on YouTube about simple machines
- Read books about situations in which human systems are used to achieve a goal (examples would include restaurants, airplane travel, public transportation, and other work scenarios)
- If you could build any kind of robot you wanted to, what kind of a robot would you build? Write and illustrate a story together that features your robot.
- Observe and discuss human systems that you have at home (bedroom routines, homework procedures, getting ready for school in the morning).



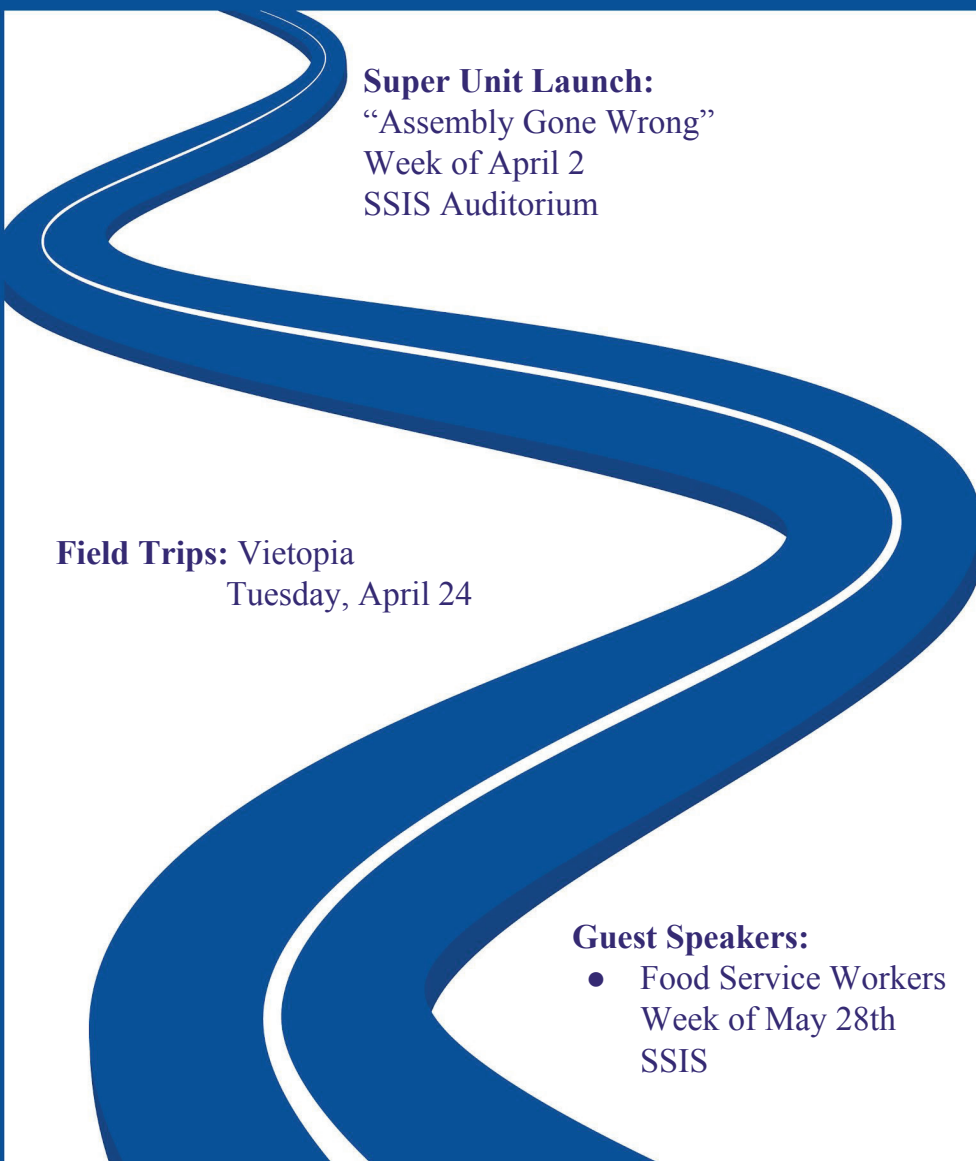
## Suggested Home Extensions

- Go to a restaurant or local business. Observe what simple or complex machines are used, and what roles humans play in the system.
- Find simple machines you have at home. Use them to build a more complex machine.
- Go to a playground. Identify the simple machines and have fun playing on them together!
- Work with your child to make a system that would allow him or her to be in charge of simple tasks at home (like watering the plants, setting the table for dinner, or feeding family pets).



## Key Vocabulary

Systems  
Improve  
Effective  
Machines (simple and complex)  
Push and pull  
Force



**Super Unit Launch:**  
“Assembly Gone Wrong”  
Week of April 2  
SSIS Auditorium

**Field Trips: Vietopia**  
Tuesday, April 24

**Guest Speakers:**

- Food Service Workers  
Week of May 28th  
SSIS

**Super Unit Celebration:**  
Week of May 28 to June 1



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