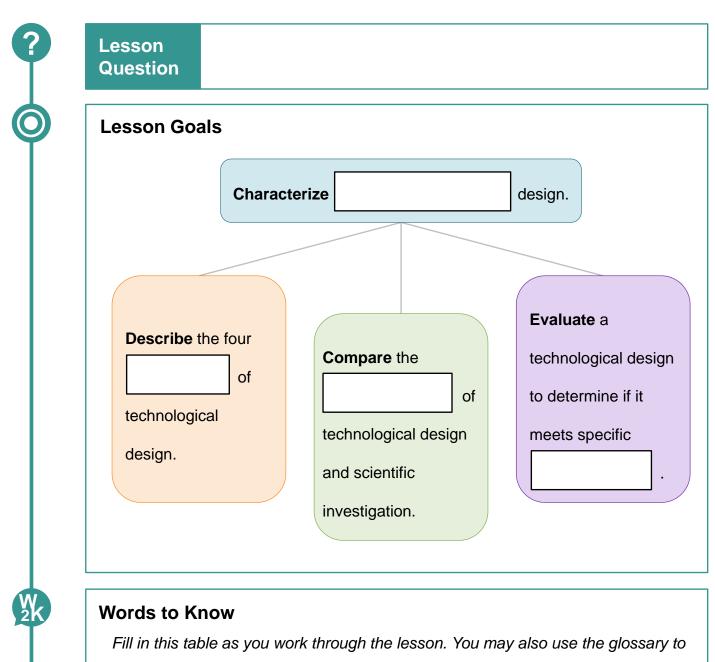


# Warm-Up Technological Design

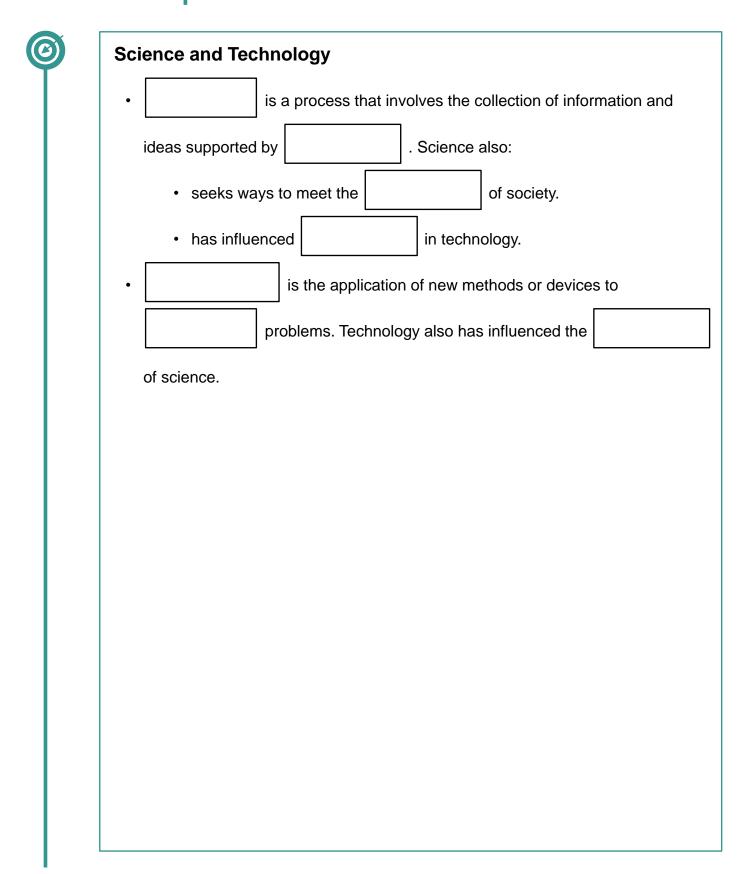


help you.

criteria	the used to make a judgment or decision
prototype	an early from which later versions are developed

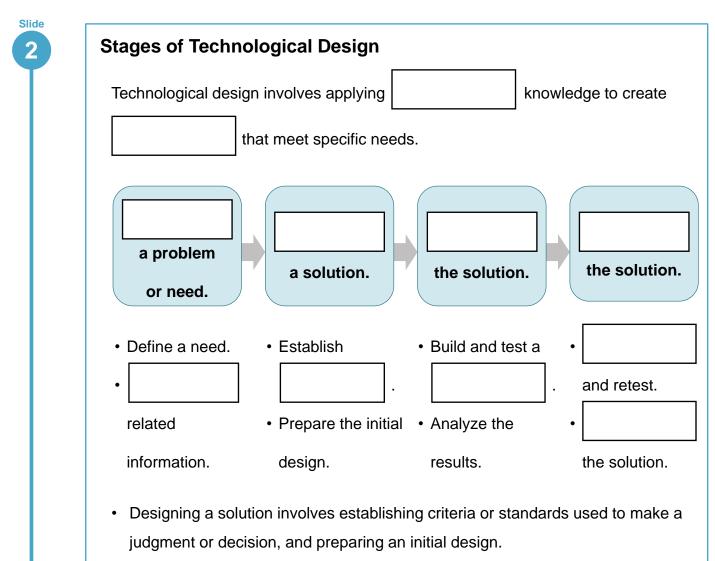


# Warm-Up Technological Design





#### Instruction Technological Design



• What is a prototype? It's an early model from which later versions are developed.



# Instruction Technological Design

#### Slide The ATHLETE Robotic Rover: Example 2 ATHLETE stands for All-Terrain Hex-Limbed Extra-Terrestrial Explorer. Identify a problem or А vehicle is needed to unload and transport cargo. Design a solution. Create initial designs for Implement the solution. the various prototypes' capabilities. and retest improved prototypes. the solution. Develop a robot. 4 **Scientific Investigation** a problem or need. related information. an investigation. • an investigation. Collection and recording of data is important in order to make observations. • Any problems should also be noted during this time. the results. After data has been collected, calculations and comparisons should be completed. the conclusions. the findings.

Slide

4



# Instruction Technological Design

#### Scientific Investigation vs. Technological Design

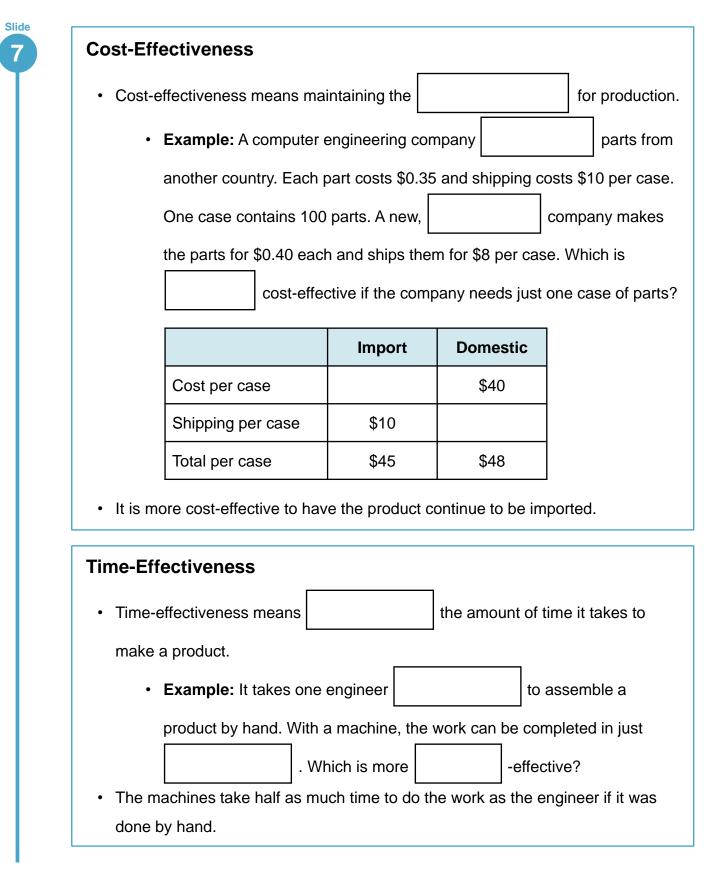
Let's take a look at the similarities and differences in this side-by-side comparison.

Scientific Investigation	Technological Design
a problem or need.	Identify a or need.
Research related information.	• related
• Design an .	information.
an investigation.	• Design a
Analyze the	the solution.
Evaluate the	<ul> <li>Analyze the results.</li> </ul>
the findings.	Evaluate the solution.
	the solution.

• With scientific investigation, you conduct an investigation, but with technological design, you implement a solution or a product.

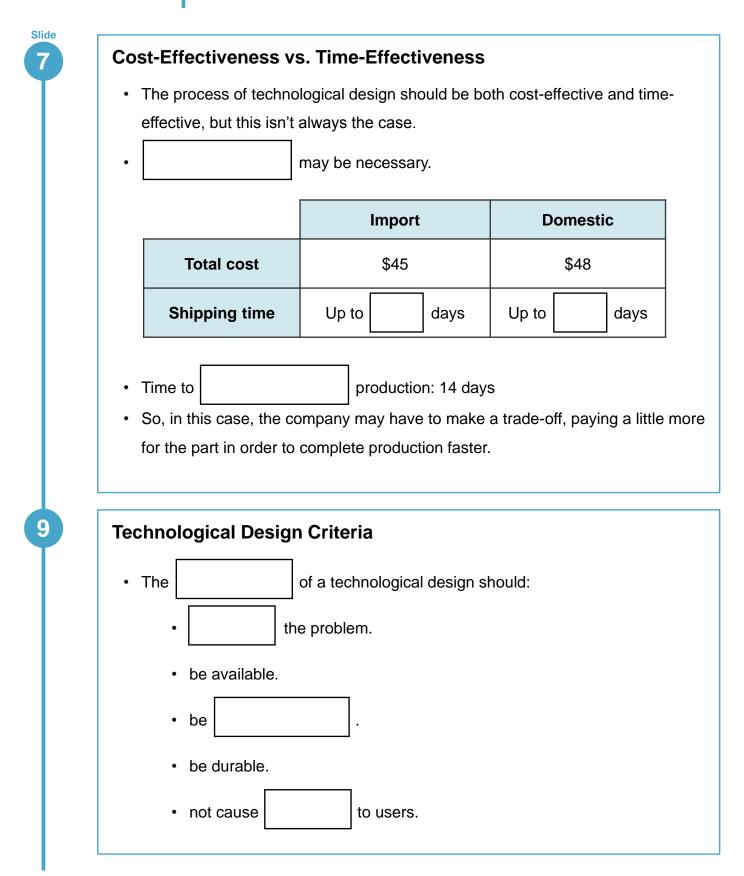


# Instruction Technological Design





# Instruction Technological Design





# Instruction

# Technological Design

The of tec	ological de	esign should always outweigh the
Benefits		Risks
Allow users to listen to		Could damage hearing
L without disrupting others		May be a
<ul> <li>Can eliminate distraction</li> <li>Are</li> </ul>		Can be lost or
		ening to the music at too high a volume using headphones far outweigh the ris



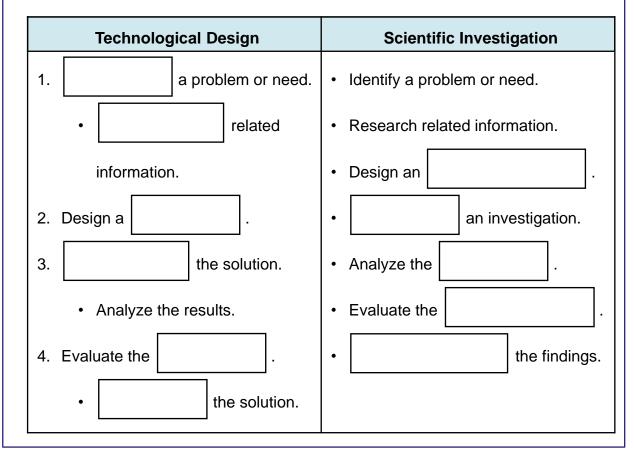
# Summary

Technological Design

Lesson Question	What is technological design?
Answer	

Slide 2

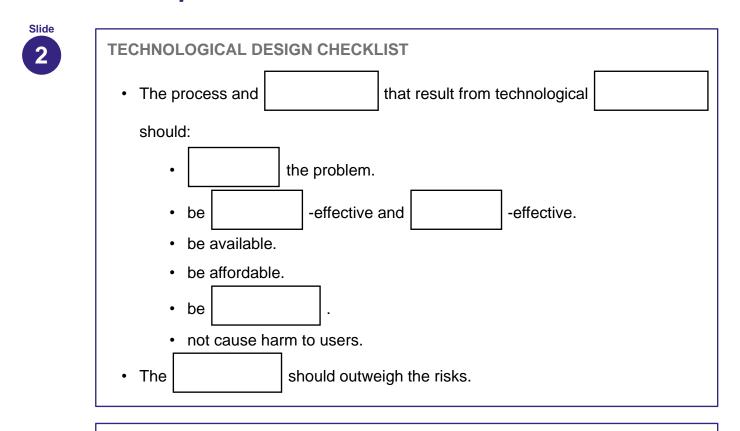
#### **Review: Key Concepts**





# Summary





Use this space to write any questions or thoughts about this lesson.