

photographs

▶ **INSERT** *the Making Work Easier DVD*

▼ **SELECT** *Visuals a la Carte*

▼ **SELECT** *Photographs*

VISUAL	GO TO SCREEN
Albert Einstein; portrait	1
Amelia Earhart	1
Ancient wedges	1
Ancient wheel	1
Archimedes' screw at a playground	1
Benjamin Franklin; portrait	1
Bicycle built for two	1
Can opener; simple machines outlined and labeled	1
Clothesline pulley (fixed pulley)	1
Compound machine; bicycle; machines outlined	1
Compound machine; nail clippers; machines outlined	2
Compound machine; paper cutter; machines outlined	2
Compound machine; pizza cutter; machines outlined	2
Compound machine; standard bicycle	2
Dog using dog ramp to enter a car	2
Double-pan balance	2
Early cellphone; modern cellphone	2
Early computer; c. 1960	2
Early portable computer; modern portable computer	2
Fire truck being loaded into a C5 aircraft	2
Fishing rod; lever outlined and labeled	3
Fishing rod; wheel and axle outlined and labeled	3
Formula 1 racecar	3
Fruit press screw	3
Garden trowel; lever outlined and labeled	3
Garden trowel; wedge outlined and labeled	3
George W. Bush	3
George Washington Carver; portrait	3

VISUAL	GO TO SCREEN
Guitar player; silhouette	3
Hardhat	3
Heavy boots	4
Heavy gloves	4
Inclined plane and wedge compared; examples	4
Inclined plane functions	4
Inclined plane; form labeled	4
Inclined plane; form labeled and outlined	4
Jackie Robinson	4
Jane Goodall	4
Jupiter's Red Spot through Hubble Telescope	4
Leisure bike; close-up	4
Leisure, mountain and racing bikes	5
Lever functions	5
Levers; form labeled	5
Levers; form labeled and outlined	5
Marie Curie; portrait	5
Micromini car	5
Microscope	5
Mountain bike; close-up	5
Patio umbrella pulley (fixed pulley)	5
Person fishing; silhouette	5
Professor Thomas Epps, III; portrait	6
Pulley functions	6
Pulley on flagpole (fixed pulley)	6
Pulleys; form labeled	6
Pulleys; form labeled and outlined	6
Rachel Carson; portrait	6
Racing bike; close-up	6
Rubber boots	6
Rubber glove	6
Safety goggles with caution sign	6
Screw functions	7
Screw water pumps	7

VISUAL	GO TO SCREEN
Screw; form labeled	7
Screw; form labeled and outlined	7
Sedan	7
Spiral ramp	7
Spring scale	7
Stereotypical scientist from naive perspective	7
Subcompact car	7
Telescope	7
Test tubes	8
Thermometers	8
Thomas Jefferson; portrait	8
Tricycle	8
Truck on loading ramp	8
Van	8
Video Quiz: Is it work?	8
Wangari Maathai; portrait	8
Washing machine; screw-type agitator	8
Wedge functions	8
Wedge; form labeled	9
Wedge; form labeled and outlined	9
Wheel and axle functions	9
Wheels and axles; form labeled	9
Wheels and axles; form labeled and outlined	9

illustrations/ diagrams

► **INSERT** *the Making Work Easier DVD*

▼ **SELECT** *Visuals a la Carte*

▼ **SELECT** *Illustrations/Diagrams*

VISUAL	GO TO SCREEN
Assessment Answers (title slide)	1
Force applied; work is not occurring	1
Force applied; work is occurring	1
Inclined plane	1
Inclined plane and wedge compared; form	1
Inclined plane and wedge compared; function	1
Levers; first-class lever	1
Levers; first-class lever; fulcrum labeled	1
Levers; second-class lever	1
Levers; second-class lever; fulcrum labeled	1
Levers; third-class lever	2
Levers; third-class lever; fulcrum labeled	2
Pulleys	2
Pulleys; moveable and fixed labeled	2
Screw	2
Simple machines; characteristics	2
Venn diagram; fixed and moveable pulleys	2
Venn diagram; fixed and moveable pulleys; blank	2
Venn diagram; fixed pulley	2
Venn diagram; inclined plane	2
Venn diagram; inclined plane, screw	3
Venn diagram; inclined plane, screw, wedge	3
Venn diagram; inclined plane, blank screw	3
Venn diagram; inclined plane, screw; partial	3

VISUAL	GO TO SCREEN
Venn diagram; inclined plane, wedge	3
Venn diagram; inclined plane, wedge, screw; blank	3
Venn diagram; inclined plane, wedge; blank	3
Venn diagram; moveable pulley	3
Venn diagram; screw,	3
Venn diagram; screw, wedge	3
Venn diagram; screw, wedge; blank	4
Venn diagram; wedge	4
Video Quiz: Is the pulley fixed or moveable? (title slide)	4
Wedge	4
What does a scientist look like? (title slide)	4
Wheel and axle	4

video bites

▶ INSERT *the Making Work Easier DVD*

▼ SELECT *Visuals a la Carte*

▼ SELECT *Video Bites*

VISUAL	GO TO SCREEN
Ancient Egyptians using fixed pulley to move slab	1
Ancient Egyptians using ramps to build pyramid	1
Ancient Egyptians using wedges to build pyramid	1
Arm wrestling stalemate (example of no work)	1
Axe chopping wood	1
Bicycle; leisure use	1
Bicycle; off-road use	1
Bicycle; racing use	1
Boat bow cutting through water	1
Chocolate fountain	1
Compound machine; guillotine-style paper cutter	2
Compound machine; nail clippers in use	2
Compound machine; pizza cutter cutting pizza	2
Compound machine; Rube Goldberg contraption	2
Drilling through ice	2
Early Ford auto assembly line	2
Hand lens	2
Holding a rock (example of no work)	2
Knife cutting cheese	2
Lathe being used to carve wooden bowl	2
Law of Inertia; crash test with/without seat belts	3
Letting go of a tennis ball (example of work)	3
Levers in action	3
Lombard Street in San Francisco, CA	3
Modern car assembly line	3
Nail being hammered into wood	3
Plants cells	3
Pulley model lifting load (moveable pulley)	3

VISUAL	GO TO SCREEN
Pulling a trash can (example of work)	3
Pushing a grocery cart (example of work)	3
Pushing against the wall of a house (example of no work)	4
Riding a bicycle and pedaling (example of work)	4
Riding a zip line (moveable pulley)	4
Sally Ride	4
Scissors cutting paper	4
Screws in operation	4
Sewing needle being pushed through fabric	4
Skateboarder on inclined plane	4
Skiers towed by rope tow (fixed pulley)	4
Skydiver (example of work)	4
Spiral ramp around ancient Egyptian pyramid	5
Swinging a bat and hitting a ball (example of work)	5
Teeth biting licorice	5
Unicycle	5
Video Activity: Video scavenger hunt	5
Video Assessment: Casting & reeling in fishing lure	5
Video Assessment: Digging with a garden trowel	5
Video Assessment: Using a handheld can opener	5
Washing machine; screw-type agitator	5
Water slide	5
Wheel and axle makes work easier	6
Wheels and axle overcome friction	6
Wheels and axles in action	6
Writing on paper; close-up (example of work)	6

animations

▶ INSERT *the Making Work Easier DVD*

▼ SELECT *Visuals a la Carte*

▼ SELECT *Animations*

VISUAL	GO TO SCREEN
Archimedes' screw	1
Fishing rod as lever	1
Fixed pulley with load	1
Inclined plane wrapping a rod to become a screw	1
Moveable pulley with load	1
Position of fulcrum affects force needed to lift load	1
Seesaw as lever	1
Two inclined planes forming a wedge	1
Wedge changing direction of a force	1
Wheelbarrow as lever	1