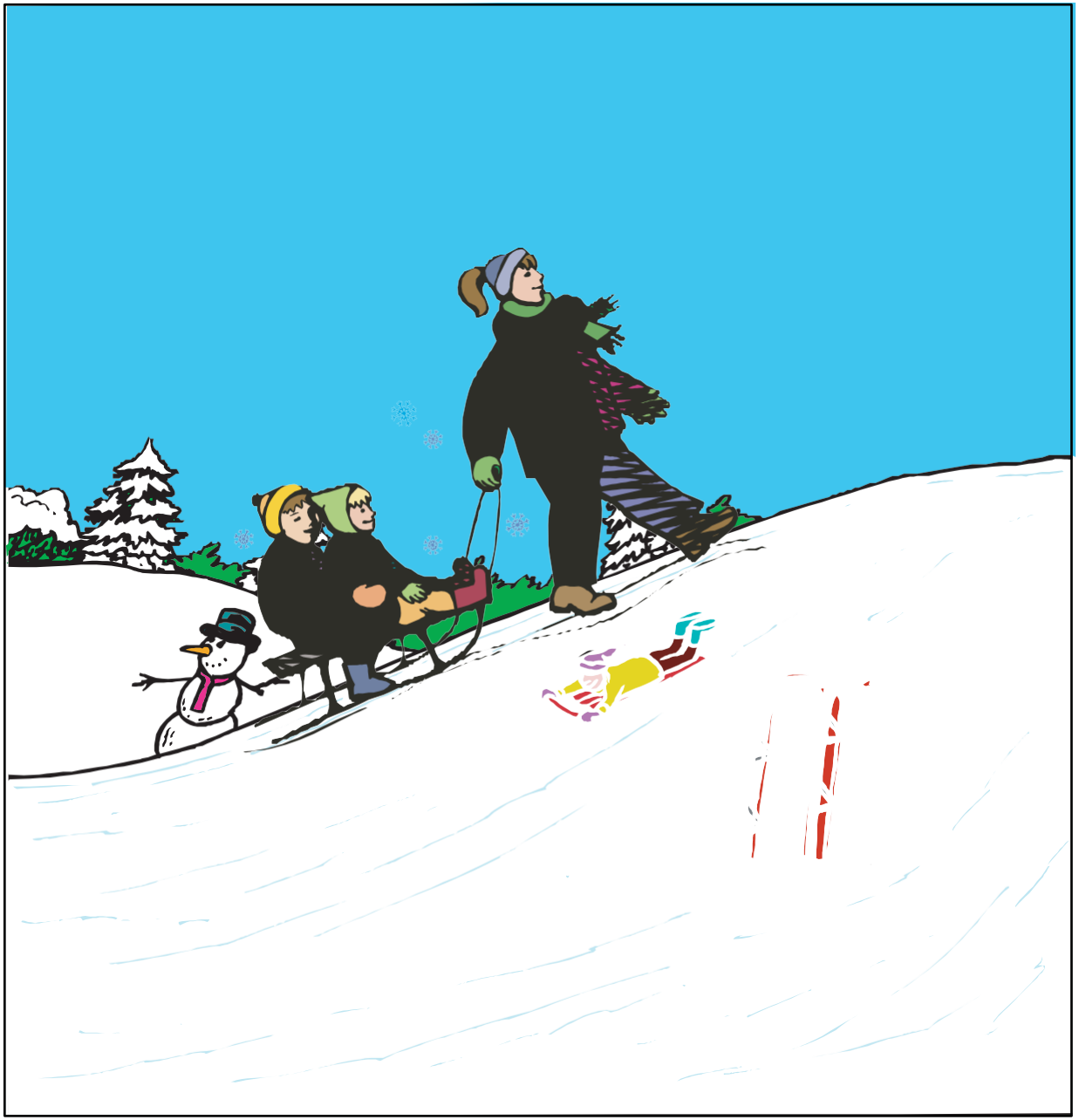
Connecticut Alternate Science Assessment

Grade 5 Resource Packet

Physical Science

Storyline 5: Forces and Motion

PUBLISHED FALL 2018
Reprinted Fall 2023



Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 1 Resource 1:
Sled Poster

Push

Pull

CT ALT Science
Storyline 5 Grade 5 –
Activity 1 Resource 2:
Card 2b – Pull

CT ALT Science
Storyline 5 Grade 5 –
Activity 1 Resource 2:
Card 2a – Push

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 1 Resource 3:
Swing Poster

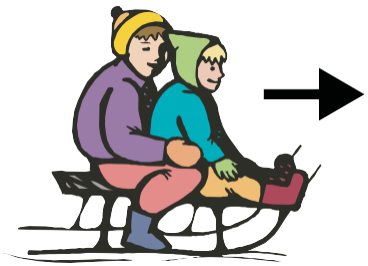
Push

Pull

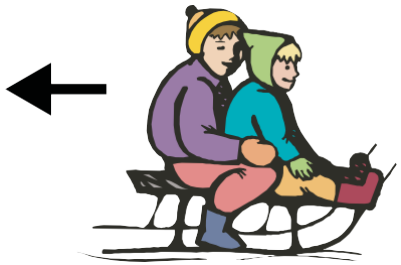
CT ALT Science
Storyline 5 Grade 5 –
Activity 1 Resource 4:
Card 4b – Pull

CT ALT Science
Storyline 5 Grade 5 –
Activity 1 Resource 4:
Card 4a – Push

forward



backward



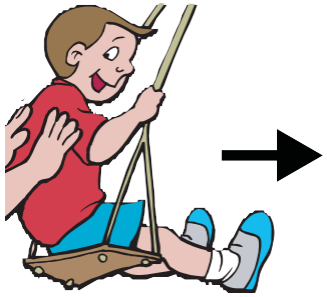
stays still

CT ALT Science
Storyline 5 Grade 5 –
Activity 2 Resource 2:
Card 2c – stays still

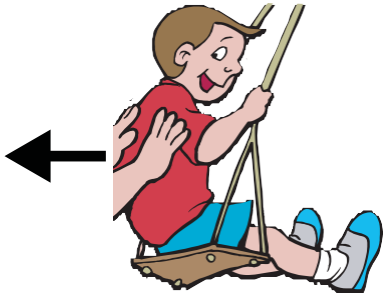
CT ALT Science
Storyline 5 Grade 5 –
Activity 2 Resource 2:
Card 2b – backward

CT ALT Science
Storyline 5 Grade 5 –
Activity 2 Resource 2:
Card 2a – forward

forward



backward

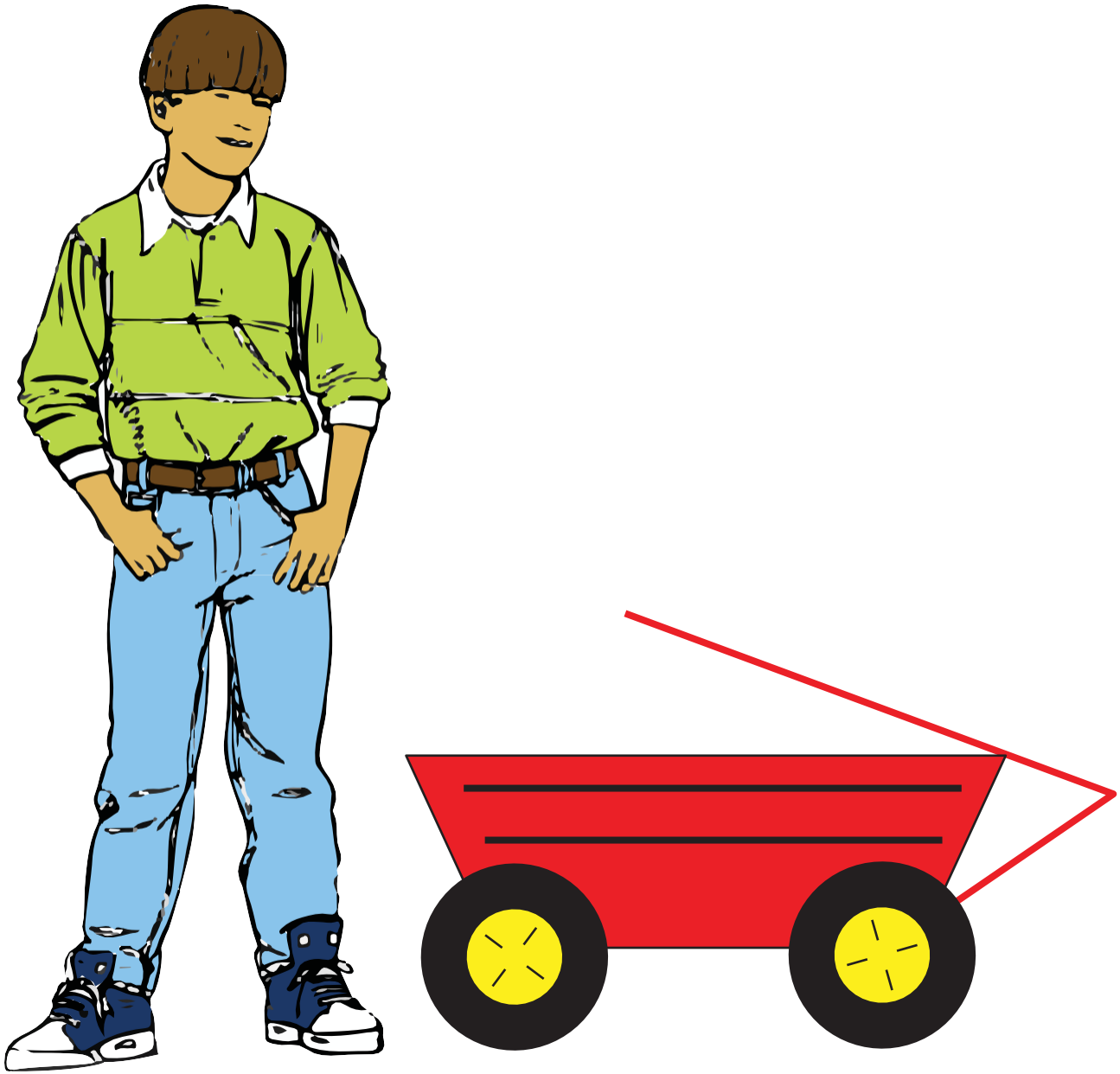


stays still

CT ALT Science
Storyline 5 Grade 5 –
Activity 2 Resource 4:
Card 4c – stays still

CT ALT Science
Storyline 5 Grade 5 –
Activity 2 Resource 4:
Card 4b – backward

CT ALT Science
Storyline 5 Grade 5 –
Activity 2 Resource 4:
Card 4a – forward



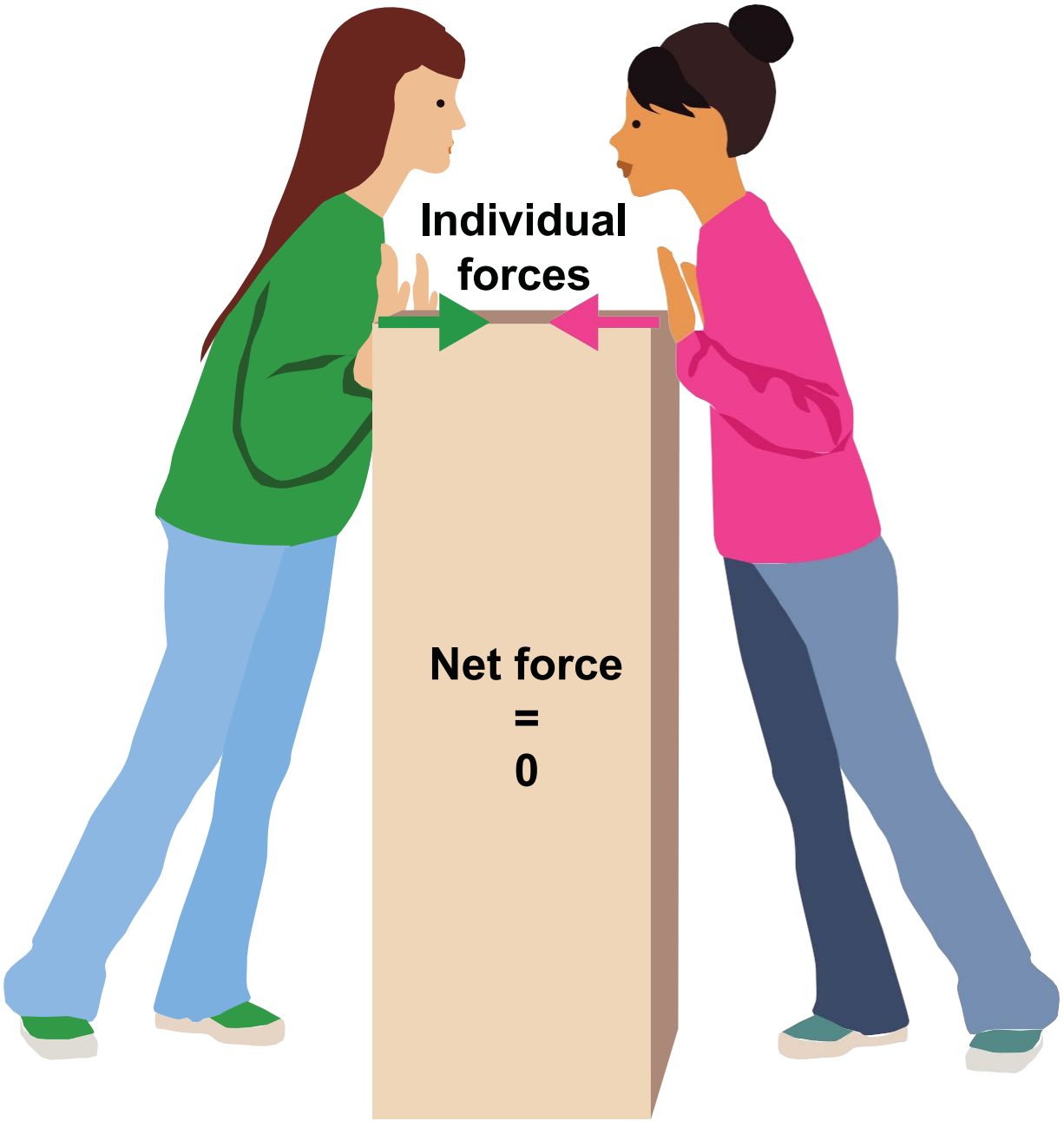
Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 2 Resource 5:
Boy and Wagon Poster

pull

push

CT ALT Science
Storyline 5 Grade 5 –
Activity 2 Resource 6:
Card 6b – push

CT ALT Science
Storyline 5 Grade 5 –
Activity 2 Resource 6:
Card 6a – pull


Individual
forces
Net force
=
0

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 3 Resource 1:
Pushing a Box Poster

yes

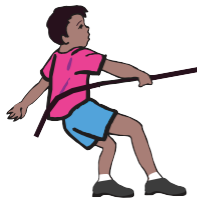
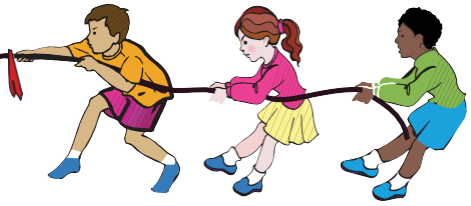
no

CT ALT Science
Storyline 5 Grade 5 –
Activity 3 Resource 2:
Card 2b – no

CT ALT Science
Storyline 5 Grade 5 –
Activity 3 Resource 2:
Card 2a – yes

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 3 Resource 3:
Pulling on a Toy Cart Poster

Results of the Tug of War Investigation

Trial	Number of Students Pulling on Left Side	Number of Students Pulling on Right Side	Movement of the Ribbon
	←	→	
Trial 1	3	3	Did Not Move
Trial 2	1 	 3	Moved to the Right
Trial 3	3	? 1	?

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 4 Resource 1:
Results of the Tug of War Investigation Data Table Poster

will not move

will move to the left

will move to the right

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 4 Resource 2:
Strip 2a – not move

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 4 Resource 2:
Strip 2b – left

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 4 Resource 2:
Strip 2c – right

Trial 1	Trial 2	Trial 3	

CT ALT Science
Storyline 5 Grade 5 –
Activity 4 Resource 3:
Card 3c – Trial 3

CT ALT Science
Storyline 5 Grade 5 –
Activity 4 Resource 3:
Card 3b – Trial 2

CT ALT Science
Storyline 5 Grade 5 –
Activity 4 Resource 3:
Card 3a – Trial 1

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource 1:
Toy Car on Ramp Poster

The toy car will not move.

The toy car will roll down the ramp.

The toy car will roll up the ramp.

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource: 2:
Sentence Strip 2a – not move

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource: 2:
Sentence Strip 2b – down

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource: 2:
Sentence Strip 2c – up

Materials Needed for this Investigation:

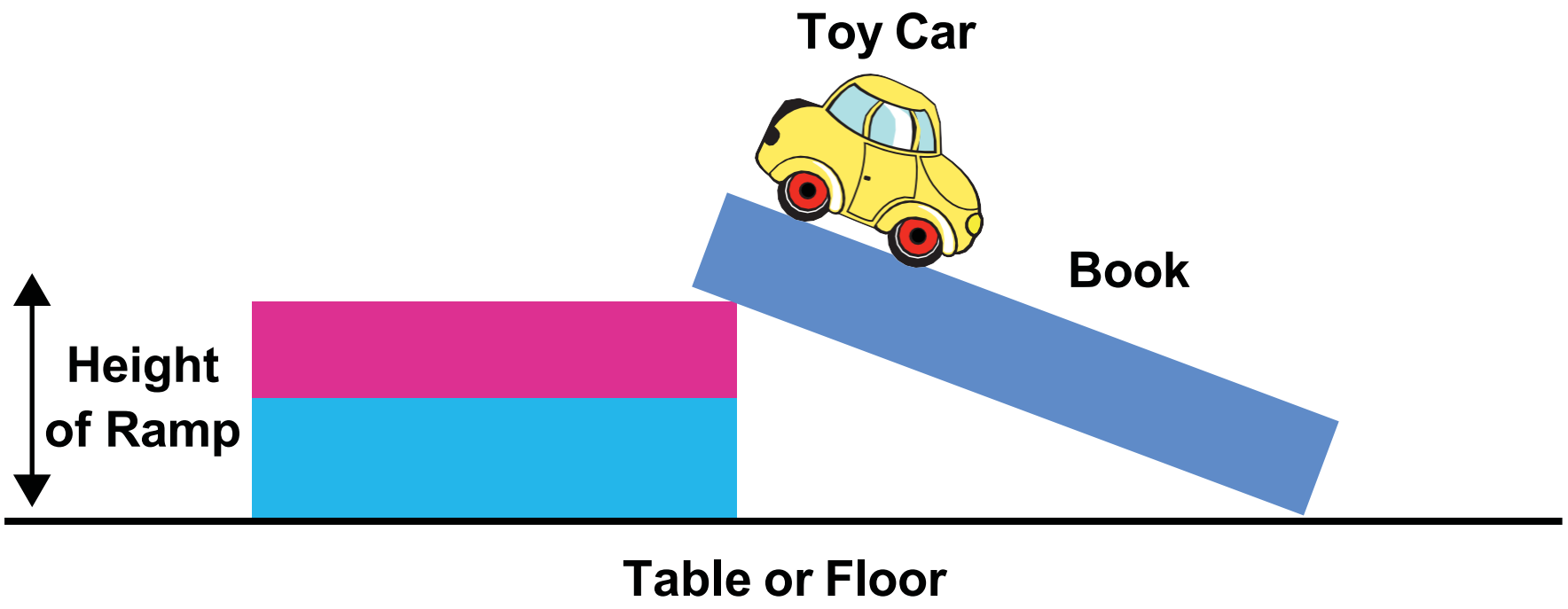
- Table/Floor
- 3 Books
- Toy Car (or a Ball)
- Tape
- Measuring Device (Meter Stick, Yard Stick, or Measuring Tape)*
  *Best practice is to use metric measuring devices and units.

Investigation Setup:

1. Stack the specified number of books on a table.
   a. For Activity 5, stack two books.
   b. For Activity 6, place one book on the table for Trial 1 and place two books on the table for Trial 2.
2. Use the third book to create a ramp from the top of the stacked books to the table.
3. Place the toy car at the top of the ramp.

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource 3:
Teacher Directions for Toy Car Investigation – Materials

Toy Car Investigation Diagram



Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource 4:
Teacher Directions for Toy Car Investigation – Diagram

does not move

rolls down the ramp

rolls up the ramp

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource 5:
Sentence Strip 5a – not move

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource 5:
Sentence Strip 5b – down

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 5 Resource 5:
Sentence Strip 5c – up

Toy Car Investigation

Trial	Height of Ramp	Distance Toy Car Traveled
Trial 1	1 Book: _____	
Trial 2	2 Books: _____	

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 6 Resource 1:
Toy Car Investigation Data Table Poster
(also used with data completed for Activity 7 Resource 1)

longer distance

shorter distance

same distance

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 6 Resource 2:
Strip 2a – longer distance

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 6 Resource 2:
Strip 2b – shorter distance

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 6 Resource 2:
Strip 2c – same distance

longer distance

shorter distance

same distance

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 7 Resource 2:
Strip 2a – longer distance

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 7 Resource 2:
Strip 2b – shorter distance

Connecticut Alternate Science
Storyline 5 Grade 5 – Activity 7 Resource 2:
Strip 2c – same distance

Connecticut Alternate Science Assessment

Grade 5 Resource Packet

Physical Science

Storyline 6: Using Energy Every Day

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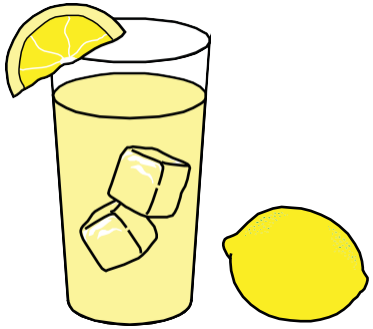
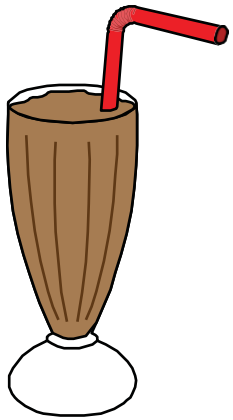
coffee

lemonade



milkshake



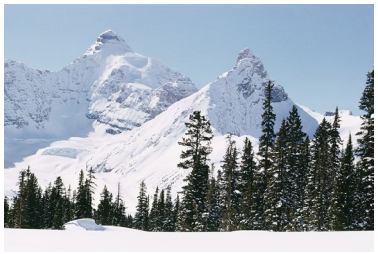
CT ALT Science
Storyline 6 Grade 5 –
Activity 1 Resource 1:
Card 1c – milkshake

CT ALT Science
Storyline 6 Grade 5 –
Activity 1 Resource 1:
Card 1b – lemonade

CT ALT Science
Storyline 6 Grade 5 –
Activity 1 Resource 1:
Card 1a – coffee

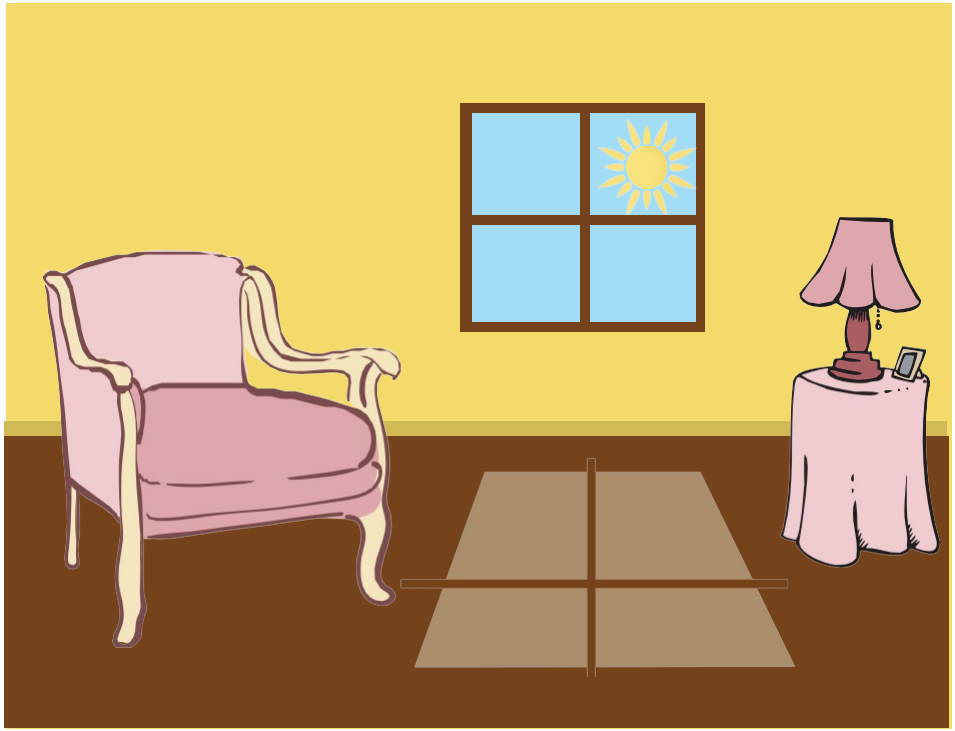
beach

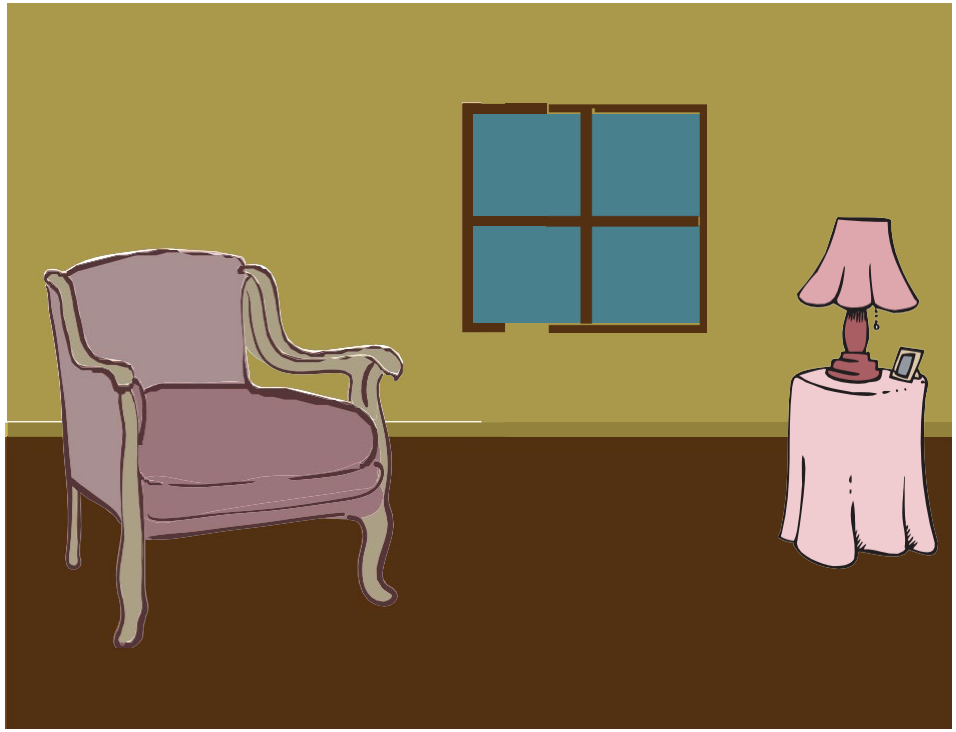
snow-covered mountains



jungle

	CT ALT Science Storyline 6 Grade 5 – Activity 1 Resource 2: Card 2c – jungle	CT ALT Science Storyline 6 Grade 5 – Activity 1 Resource 2: Card 2b – snow-covered mountains	CT ALT Science Storyline 6 Grade 5 – Activity 1 Resource 2: Card 2a – beach

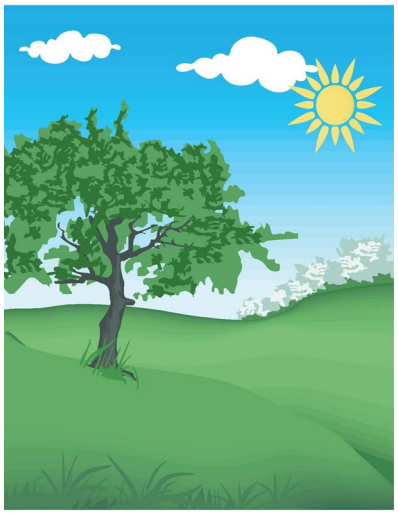




Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 2 Resource 1:
Card 1b – sun

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 2 Resource 1:
Card 1a – moon

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 2 Resource 1:
Card 1c – lamp

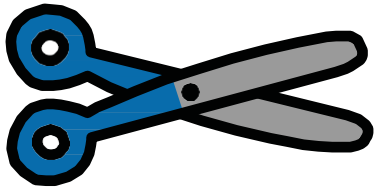


CT ALT Science
Storyline 6 Grade 5 –
Activity 2 Resource 2:
Card 2c – moon

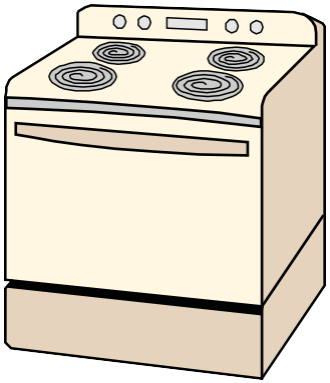
CT ALT Science
Storyline 6 Grade 5 –
Activity 2 Resource 2:
Card 2b – clouds

CT ALT Science
Storyline 6 Grade 5 –
Activity 2 Resource 2:
Card 2a – sun

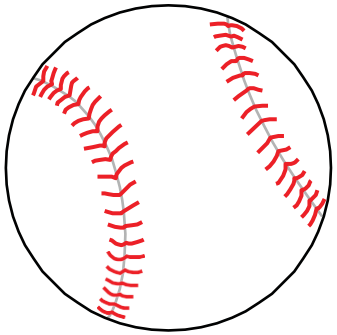
scissors



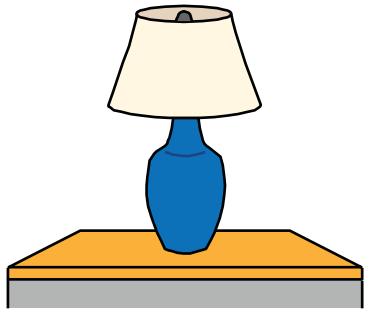
stove



baseball



lamp



CT ALT Science
Storyline 6 Grade 5 –
Activity 3 Resource 1:
Card 1d – lamp

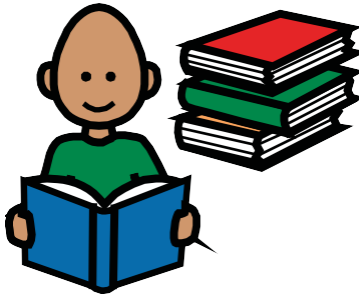
CT ALT Science
Storyline 6 Grade 5 –
Activity 3 Resource 1:
Card 1c – baseball

CT ALT Science
Storyline 6 Grade 5 –
Activity 3 Resource 1:
Card 1b – stove

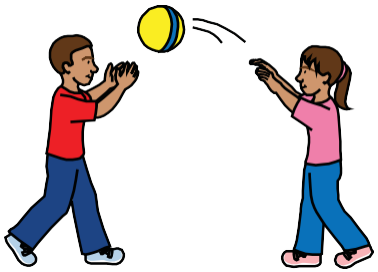
CT ALT Science
Storyline 6 Grade 5 –
Activity 3 Resource 1:
Card 1a – scissors

to cook

to read



to play



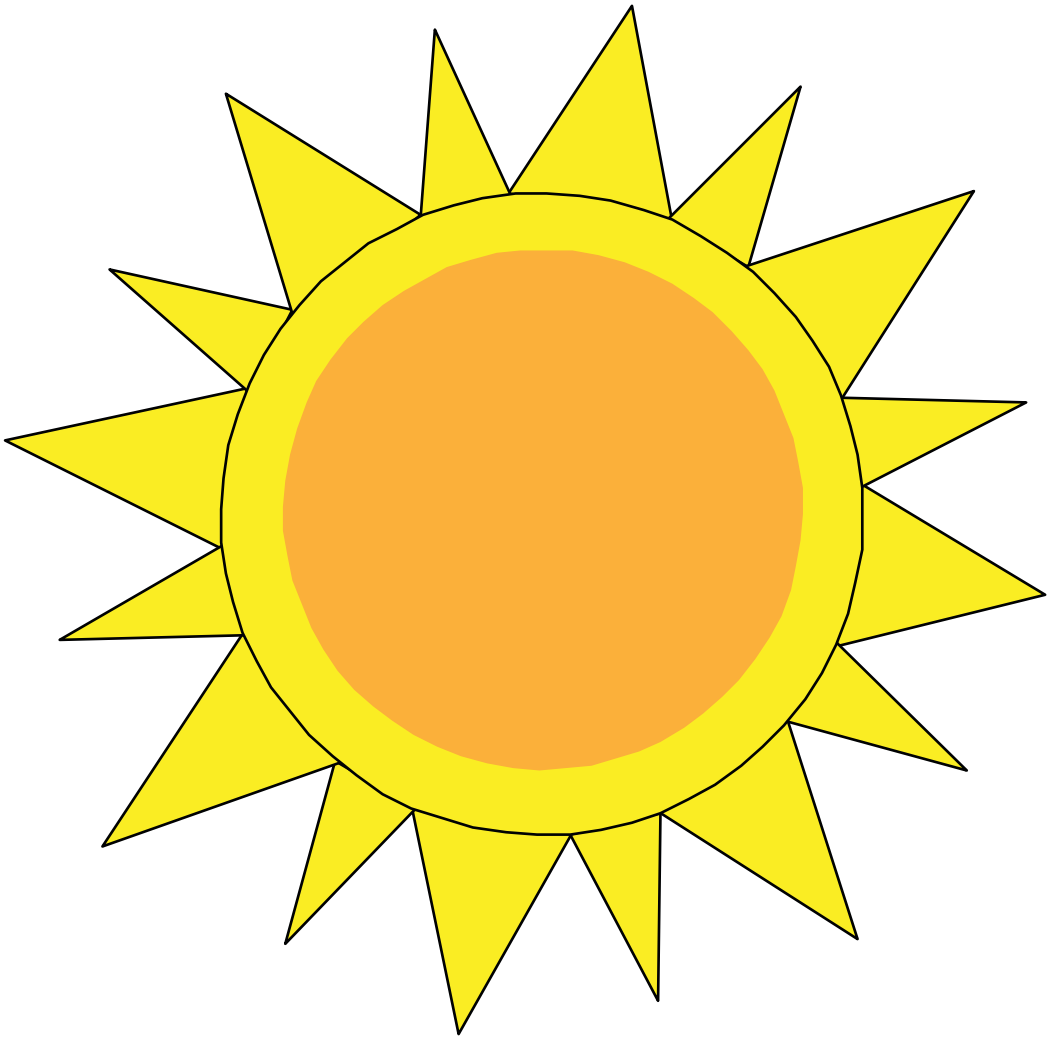
to swim

CT ALT Science
Storyline 6 Grade 5 –
Activity 3 Resource 2:
Card 2d – to swim

CT ALT Science
Storyline 6 Grade 5 –
Activity 3 Resource 2:
Card 2c – to play

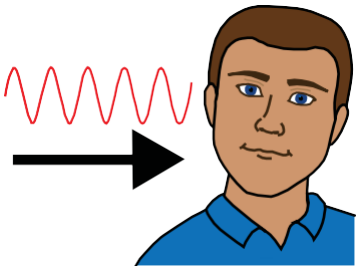
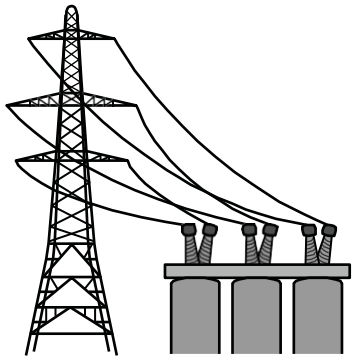
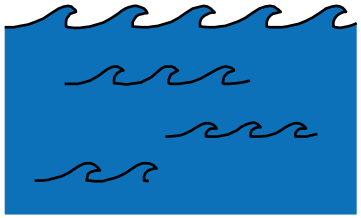
CT ALT Science
Storyline 6 Grade 5 –
Activity 3 Resource 2:
Card 2b – to read

CT ALT Science
Storyline 6 Grade 5 –
Activity 3 Resource 2:
Card 2a – to cook



Sun

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 4 Resource 1:
Sun Poster

sound	heat	electric	water
			

CT ALT Science
Storyline 6 Grade 5 –
Activity 4 Resource 2:
Card 2d – water

CT ALT Science
Storyline 6 Grade 5 –
Activity 4 Resource 2:
Card 2c – electric

CT ALT Science
Storyline 6 Grade 5 –
Activity 4 Resource 2:
Card 2b – heat

CT ALT Science
Storyline 6 Grade 5 –
Activity 4 Resource 2:
Card 2a – sound

to build homes

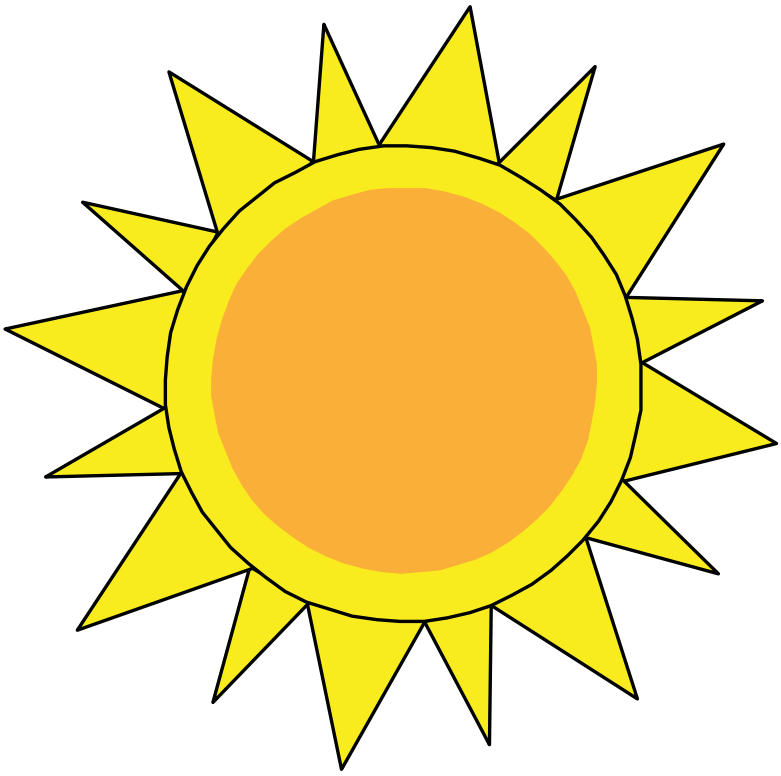
to eat more food

to stay warm

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 4 Resource 3:
Sentence Strip 3a – home

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 4 Resource 3:
Sentence Strip 3b – food

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 4 Resource 3:
Sentence Strip 3c – warm



Sun

Plants

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 5 Resource 1:
Sun and Plants Poster

light energy

heat energy

sound energy

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 5 Resource 2:
Strip 2a – light energy

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 5 Resource 2:
Strip 2b – heat energy

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 5 Resource 2:
Strip 2c – sound energy

They make water to drink.

They make soil for their roots.

They make food to grow.

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 5 Resource 3:
Sentence Strip 3a – water

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 5 Resource 3:
Sentence Strip 3b – soil

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 5 Resource 3:
Sentence Strip 3c – food

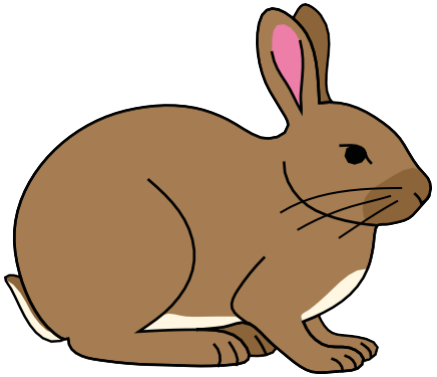
Energy Flow Chart

?

Energy

Plant

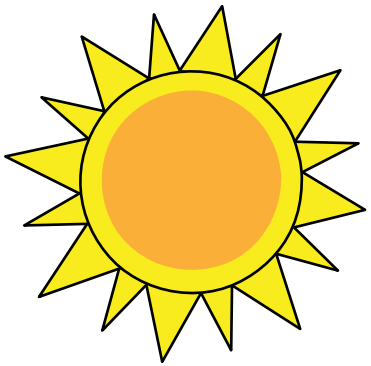
Energy



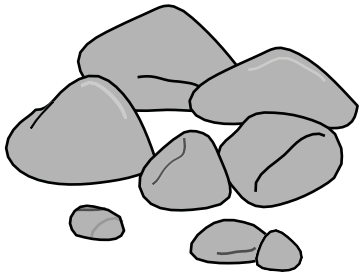
Rabbit

Connecticut Alternate Science
Storyline 6 Grade 5 – Activity 6 Resource 1:
Energy Flow Chart Poster

sun



rock



fox

CT ALT Science
Storyline 6 Grade 5 –
Activity 6 Resource 2:
Card 2c – fox

CT ALT Science
Storyline 6 Grade 5 –
Activity 6 Resource 2:
Card 2b – rock

CT ALT Science
Storyline 6 Grade 5 –
Activity 6 Resource 2:
Card 2a – sun