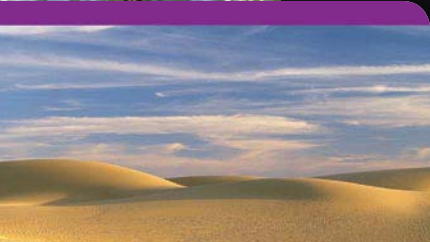
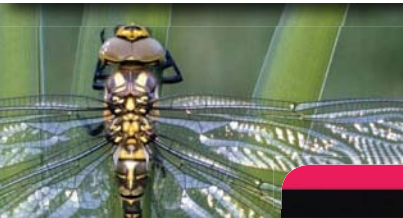


# *Science* PHOTO LIBRARY

**Improve students' science vocabulary using the  
visual learning approach in SRA Science Photo Library**

- Build students' science background knowledge
- Develop students' oral language skills
- Help students visualize science vocabulary
- Use Photo Cards with 10 key languages in addition to English



# Engage your students in science with SRA Science Photo Library

**S**RA *Science Photo Library* builds a solid foundation in science vocabulary for students from Grades 3–Adult. The program collections help you teach English science vocabulary using vivid photography, science background paragraphs, and translations and pronunciations in 10 languages on each unique card.

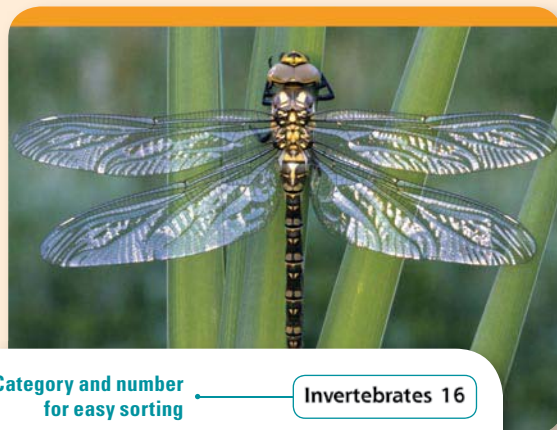
The flashcard format makes **Science Photo Library** perfect for group or individual practice. The collections are appropriate for:

- Readers and non-readers
- Visual learners
- English-language learners
- Intervention

Each full-color **Photo Card** includes science terms in 10 languages in addition to an English description. Languages include:

- Spanish
- Vietnamese
- Hmong
- Cantonese
- Korean
- Haitian Creole
- Arabic
- Russian
- Tagalog
- Khmer

Images are bright, clear, and familiar



## dragonfly

Spanish	libélula (lě be' lū lā)
Vietnamese	chuồn chuồn (tūm tūm)
Hmong	kaḥ qaus liv (gā kōw lē)
Cantonese	蜻蜓 (t' sing ting)
Korean	잠자리 (jām' jī rē)
Haitian Creole	libelil (lě be lī')
Arabic	سرمين (sūr man')
Russian	crпekoca (strē' kā zā)
Tagalog	tutubi (tū tū bē')
Khmer	ក្រណាត់ (kōn tōm rroiy')

Science term

Translations and pronunciations  
in 10 languages

The information behind the photo  
gives you science background

Category and number  
for easy sorting

Invertebrates 16

A dragonfly is an insect with two pairs of long wings. Dragonflies have two large complex eyes at the front of their heads. Their excellent sense of sight allows them to catch and eat other insects while flying. To reproduce, dragonflies lay eggs in water. When the eggs hatch, the young dragonflies live in water for the first part of their lives as nymphs. A nymph will eat other aquatic insects, such as mosquito larvae. A dragonfly may live up to four years as a nymph. When its adult body develops, the dragonfly leaves the water by crawling up a plant stem. When its wings develop, it will fly away and live on land for the rest of its life, which lasts no more than two months.

### Card Connections

### Linking Ideas

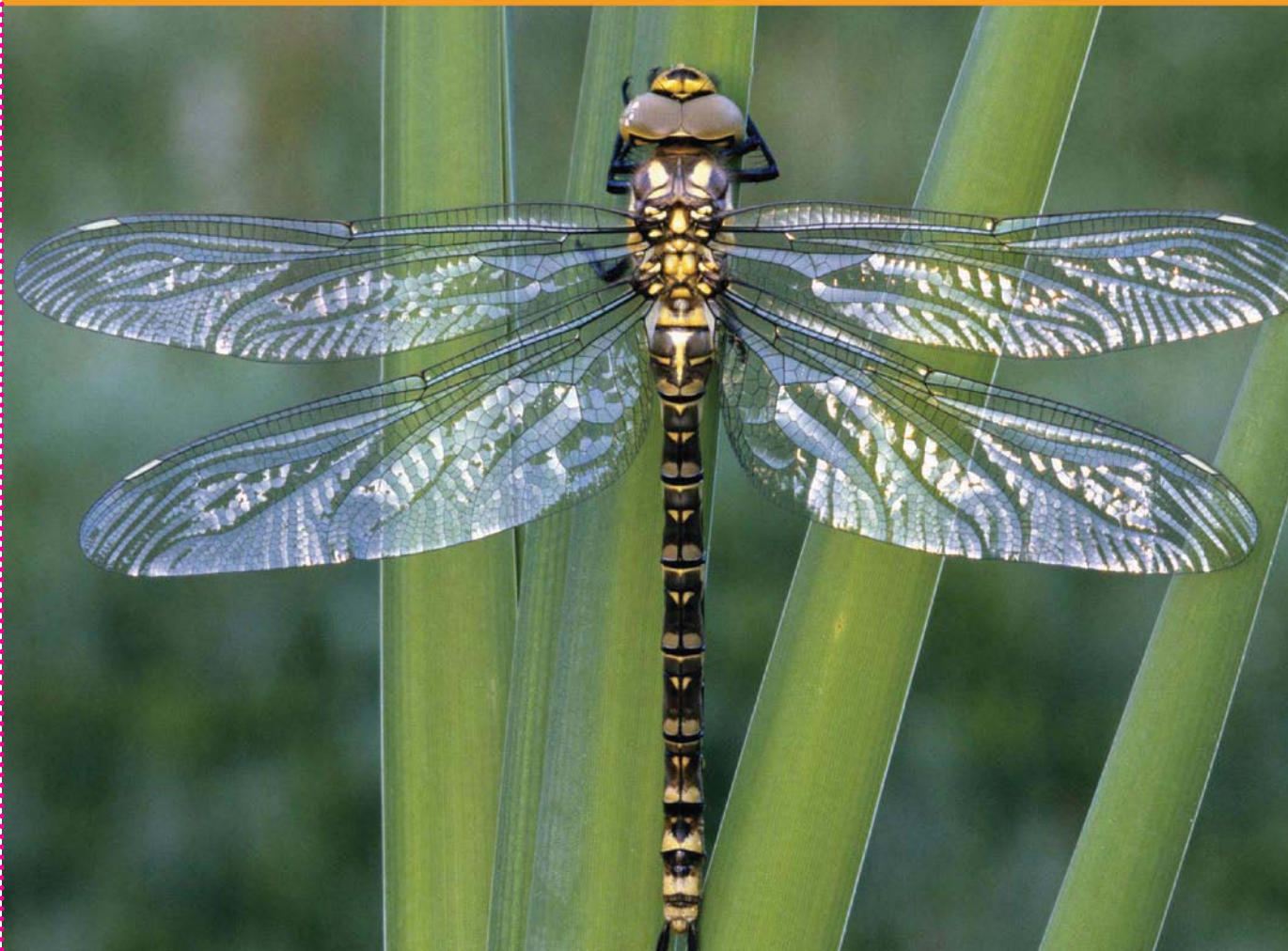
#### Additional Invertebrates Cards

butterfly (Invertebrates 8), mosquito (Invertebrates 26),  
moth (Invertebrates 27)

#### Other Cards

wing (Vertebrates 74), carnivore (Ecology 4)





# eruption

## Changing Earth 5

Spanish	erupción (ā rūp syōn´)
Vietnamese	phún (fűng)
Hmong	qhov tawg los (kô dūr lô)
Cantonese	爆發 (bou fā´)
Korean	분출 (pūn chūl)
Haitian Creole	eripsyon (ā rēp syōn´)
Arabic	انفجار (en fē zhārr´)
Russian	извержение (ēz vār zhe´ nē ye)
Tagalog	pagsabog (päg sä´ bōg)
Khmer	ប្រភព (bôn tū´)

An eruption is the escape of molten rock, ash, and gas from below the surface of Earth. An explosive eruption is a strong ejection of rock, ash, and gas. An effusive eruption is a quiet flow of lava. A mixed eruption is a combination of an explosive eruption and an effusive eruption. Hawaiian eruptions are usually effusive eruptions of thin, high temperature magma that has low gas content. However, explosive eruptions have taken place at the Kilauea volcano in Hawaii as recently as 1920's.

### Card Connections

### Linking Ideas

#### Additional Changing Earth Cards

*erosion (Changing Earth 4), volcano (Changing Earth 19)*

#### Other Cards

*ash (Inside Earth 2), igneous rock (Inside Earth 17), lava (Inside Earth 18), magma (Inside Earth 21)*

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# dragonfly

## Invertebrates 16

Spanish	libélula (lē be´ lū lä)
Vietnamese	chuồn chuồn (tūm tūm)
Hmong	kab qaus liv (gä kōw lē)
Cantonese	蜻蜓 (t' sing ting)
Korean	잠자리 (jām´ jä rē)
Haitian Creole	libelil (lē be lil´)
Arabic	سرمطان (sūr man´)
Russian	стрекоза (strē´ kā zä)
Tagalog	tutubi (tū tū bē´)
Khmer	ត្រីប្រដាប់ (kôn tōm rroi´)

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### Card Connections

### Linking Ideas

#### Additional Invertebrates Cards

*butterfly (Invertebrates 8), mosquito (Invertebrates 26), moth (Invertebrates 27)*

#### Other Cards

*wing (Vertebrates 74), carnivore (Ecology 4)*

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# gear

## Force and Motion 9

Spanish	engranaje (en gră nă' hhă)
Vietnamese	bánh răng (bun răn)
Hmong	tus cias (tù tē ä)
Cantonese	齒輪 (chē lun)
Korean	기어 (tôm nē bā' khē)
Haitian Creole	ekipman (ôn gră năzh')
Arabic	دولاب مسنن (dü le' ep mü se' nen)
Russian	приспособление (prē spō su blē' nēə)
Tagalog	(kambiyo) kām bē' yō
Khmer	ឆ្នាំង (spit krrō)

A gear is a special type of wheel and axle. A gear consists of two wheels of different sizes. The wheels have interlocking teeth. When one wheel is rotated, the interlocking teeth force the other wheel to rotate. When the large gear is rotated, the smaller gear will make more revolutions because the distance around the gear is smaller. A system of gears can reduce the amount of force required to do a task. Gears also change the direction of the force. Gears are used on multispeed bicycles, in watches, and in cars.

### Card Connections Linking Ideas

#### Additional Force and Motion Cards

force (Force and Motion 6), wheel and axle (Force and Motion 26)

#### Other Cards

bicycle (Science in Society 4), car (Science in Society 6), watch (Science in Society 47)

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# astronaut

## Space 2

Spanish	astronauta (äs trō nou' tä)
Vietnamese	phi hành gia (fē han jyä)
Hmong	tus neeg mus saum hli (dü ning mü shou hlē)
Cantonese	太空人 (tī hō myäng)
Korean	우주 비행사 (ü dzü bē hang sä)
Haitian Creole	astronòt (as tō nôt')
Arabic	TK (rrä 'et fä dā'')
Russian	астронавт (äs trō năft')
Tagalog	astronot (as' trō nôt)
Khmer	អ្នកវិវាទ (at vât' kă jô)

An astronaut is a person who travels into space. Over four hundred people have made a trip into space. Astronauts travel into space on a space shuttle, and some stay in space for extended periods of time on a space station.

Astronauts have landed and walked on the moon but have not visited any other bodies in the solar system. Some astronauts have done space walks, which means they go outside the shuttle while it is still in space. When astronauts do a space walk, they rely on special space suits to give them what they need to live.

### Card Connections Linking Ideas

#### Additional Space Cards

moon (Space 22), space shuttle (Space 39), space station (Space 40)

#### Other Cards

air (Weather and Water 1), gravity (Force and Motion 10), temperature (Matter and Change 33)

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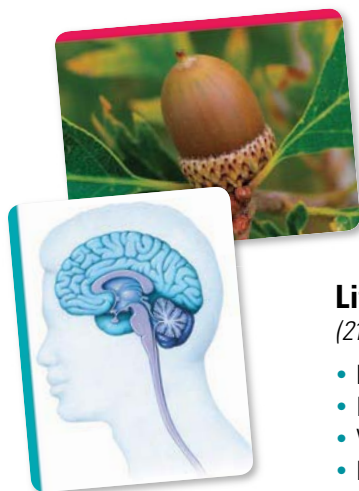
# Three collections promote background vocabulary in Life, Earth, and Physical Sciences

SRA Science Photo Library



**SRA Science Photo Library** is available in three collections featuring full-color, original photography.

**Tab Divider Cards** keep collections organized and provide questions about the photos in each category. Each collection is divided into five categories.



## Life Science Collection (210 Cards)

- Plants
- Invertebrates
- Vertebrates
- Humans
- Ecology

## Earth Science Collection (210 Cards)

- Space
- Weather and Water
- Changing Earth
- Inside Earth
- Earth's Surface

## Physical Science Collection (210 Cards)

- Energy
- Force and Motion
- Matter and Change
- Science in Society
- Science Equipment

## Integrate **SRA Science Photo Library** into your classroom

The **Teacher's Idea Book** and **CD-ROM** help you:

- Make science connections
- Support language development with activities
- Integrate **SRA Science Photo Library** with other areas of your curriculum such as math, social studies, language arts, and health

Each collection includes a **Sorting Mat** to help students organize and classify the **Science Photo Cards**.

A **World Map** and **U.S. Map** show landforms and bodies of water for reference when describing locations of the items pictured.

A multimedia **CD-ROM** provides interactive access to:

- Motivate students with vocabulary games
- Support English fluency with audio
- Engage students with translations and visuals
- Develop language skills with dictionary support

Call 1-800-201-7103 or visit  
**SRAonline.com**  
to order and learn more!







# **SRA** *Science* PHOTO LIBRARY



**Do you want  
to boost students'  
science vocabulary?**

Use **SRA Science Photo Library** to:

- Build students' science background knowledge in Life, Earth, and Physical Sciences
- Develop students' oral language skills and help students visualize science vocabulary
- Provide support for English-language learners
- Teach with user-friendly **Photo Cards** that include 10 key languages in addition to English as well as 15 different topics
- Enhance lessons with a **Teacher's Idea Book**, **Interactive CD-ROM**, **Sorting Mats**, and **World** and **U.S. Maps**

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