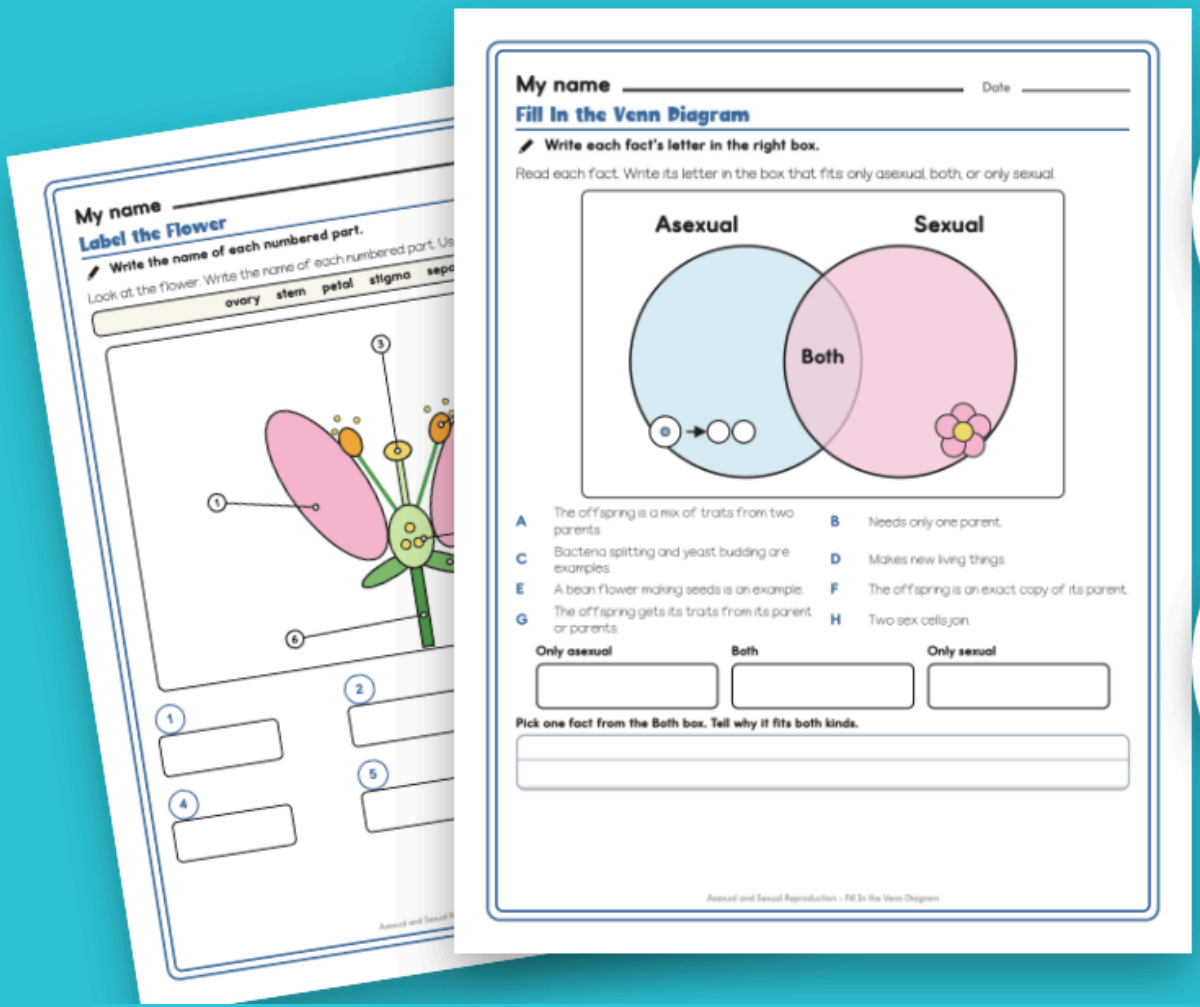
ASEXUAL AND SEXUAL REPRODUCTION

COMPARE - VENN - SORT - SHORT ANSWER - KEY



GRADES 6-8

25 STUDENT PAGES

Bright Path Sped

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This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or a box, type, and Save As.
- The name line, every answer box, every ruled work box and every check box on the student pages are type-in fields, and so are the tracker, class grid, team note and family page. You can also print any page and write by hand.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the ruled lines stay 0.34 inch apart. Every student page is black and white inside a colored border, so it still reads when copied in black and white.

Student work

A filled-in tracker, class grid or team note carries a real student's name. Keep it in the data folder, and use a first name only on any page that leaves your hands.

Need help?

If a field will not behave or a page will not print the way you expect, use Ask a Question on the product page before leaving a review. Every question is read, and a fix to the file ships as a free update: re-download it any time from My Purchases.

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PREVIEW

How To Read a Page

The parts of a student page, then the kinds of sheet in the order they come.

The parts of a page

- **The answer box.** A bordered box for a letter, a number or a word. Click it to type, or print and write in it.
- **The ruled work box.** Lines 0.34 inch apart for sentences. Write one idea to a line.
- **The check box.** True or false, yes or not yet: click or mark.
- **The word bank.** A box of words to use. Some words are used once, some not at all.
- **The cut line.** Eight or nine pieces in a short grid, edge to edge: a few straight cuts across and down.

Kind of sheet	How many	What the student does
Readings and cards	4 sheets	Read, answer, and keep the method cards to look things up.
Words and matching	4 sheets, 22 items	Match words and parts; try a worked example.
Diagrams and chart	3 sheets, 29 items	Label a flower, fill in a Venn diagram, then a chart of the methods.
Order and story	2 sheets, 12 items	Put six steps in order, then fill in the story with the bank.
True or false and mistakes	3 sheets, 16 items	Check sentences, fix false ones, find Mara's mistakes.
Writing	3 sheets, 9 questions	Short answers with at least four ruled lines, then explain-it boxes with at least five each.
Quizzes, exit tickets, sorts	12 items, 3 tickets, 17 pieces	Two quizzes, one exit sheet, two cut-and-sort mats.

Untimed, unscored on the page

No student page has a timer or a score on it. The keys and the tracker are for you. The answer keys are on pages 30 to 35.

Short answers and explain-its

Their keys (page 34) say what to look for, not one right sentence. Accept any answer that uses a fact from the readings or the method cards.

Printing and the type-in fields

Every page prints clean in black and white. The name line, every answer box, every ruled box and every check box are type-in fields in any PDF reader: click one, type, then save. This is a fillable PDF, not a slideshow or a word-processor file.

Room to work

Short-answer boxes hold at least four lines and explain-it boxes at least five. If a student needs more room, hand over one page a day, or let students write on scrap paper and copy their best sentences into the box.

PREVIEW

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My name _____ Date _____

Reading 1: One Parent

Read about one parent. Then answer.

Asexual reproduction

Some living things need only **one parent** to make new living things. This is **asexual reproduction**. The new living thing is called the **offspring**. Because only one parent is involved, the offspring is an exact copy of it. An exact copy is called a **clone**. A bacterium reproduces by **binary fission**: it copies what is inside, grows a little longer and splits into two. Yeast is a one-celled fungus that reproduces by **budding**: a small bud grows on the parent cell and then breaks off. A hydra, a tiny freshwater animal, can bud too. Molds and mushrooms make tiny **spores**, and each spore can grow into a new one. Some plants can grow from a **cutting**, a piece of stem or leaf that grows roots.

Main idea: What is this reading mostly about?

Check what you read. Write the letter in the box.

1. How many parents does asexual reproduction need?
   - **A** Two
   - **B** One
   - **C** Three

2. What is binary fission?
   - **A** A cell copies what is inside and splits into two
   - **B** A seed grows into a plant
   - **C** Pollen lands on a flower

3. How does the offspring compare with its parent?
   - **A** It is a mix of two parents
   - **B** It is always much larger
   - **C** It is an exact copy

PREVIEW

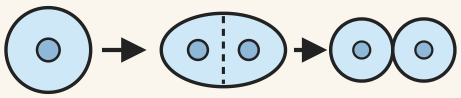
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My name _____ Date _____

Method Cards 1

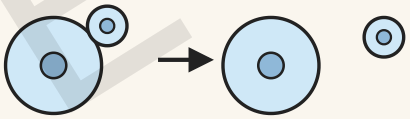
Read the cards. Keep them all week.

Binary fission (asexual)



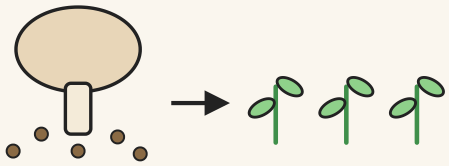
What happens	One cell copies what is inside, then splits into two cells
Parents	One
Offspring	Exact copies of the parent cell
Example	Bacteria

Budding (asexual)



What happens	A small bud grows on the parent, then breaks off as a new organism
Parents	One
Offspring	Exact copies of the parent
Example	Yeast cells and hydras

Spores (asexual)



What happens	The parent makes tiny spores. Each spore can grow into a new organism
Parents	One
Offspring	Exact copies of the parent
Example	Molds and mushrooms

Pick one method. Tell what it does in your own words.

PREVIEW

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My name _____ Date _____

Reproduction Words

Match each word to what it means.

Write the letter of the meaning in the box. Use the readings to help you.

1	**asexual reproduction**		**A**	A new living thing made by its parent or parents.
2	**sexual reproduction**		**B**	An offspring that is an exact copy of its parent.
3	**offspring**		**C**	Making new living things from one parent.
4	**binary fission**		**D**	Pollen landing on the stigma of a flower.
5	**pollination**		**E**	Making new living things when two sex cells join.
6	**clone**		**F**	One cell splitting into two cells.

Use two of the words in one sentence about reproduction.

PREVIEW

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My name _____ Date _____

Match the Parts

Match each word to what it means.

Write the letter of the meaning in the box. Use the method cards to help you.

1	Spore		A	A package that can grow into a new plant after fertilization.
2	Bud		B	A piece of stem or leaf that can grow into a new plant.
3	Cutting		C	The part of a flower that makes pollen.
4	Pollen		D	A tiny cell that can grow into a new mold or mushroom.
5	Egg cell		E	A powder made in the anther that holds a sex cell.
6	Seed		F	The sticky top of the pistil where pollen lands.
7	Stigma		G	A small growth on a parent that breaks off to become a new organism.
8	Anther		H	A sex cell inside the ovary of a flower.

Pick one pair. Tell how the two things are connected.

PREVIEW

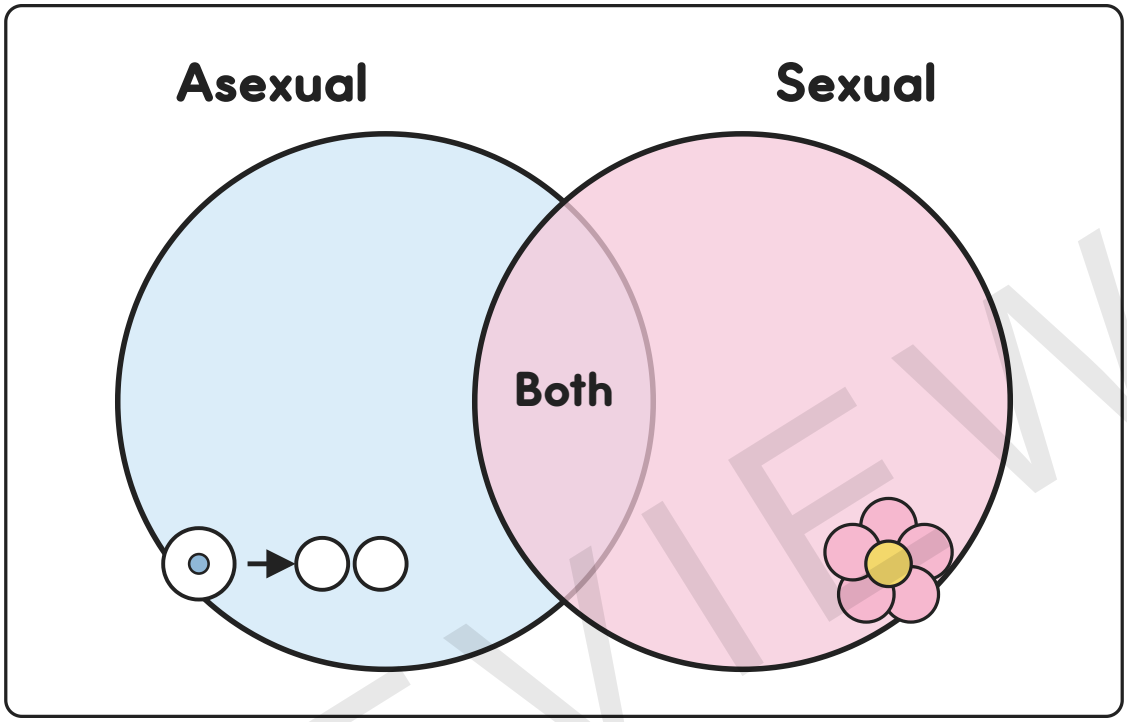
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My name _____ Date _____

Fill In the Venn Diagram

Write each fact's letter in the right box.

Read each fact. Write its letter in the box that fits: only asexual, both, or only sexual.



A The offspring is a mix of traits from two parents.

B Needs only one parent.

C Bacteria splitting and yeast budding are examples.

D Makes new living things.

E A bean flower making seeds is an example.

F The offspring is an exact copy of its parent.

G The offspring gets its traits from its parent or parents.

H Two sex cells join.

Only asexual	Both	Only sexual

Pick one fact from the Both box. Tell why it fits both kinds.

PREVIEW

My name _____ Date _____

Put the Steps in Order

Write the step number, 1 to 6, next to each step.

Each step is true, but they are mixed up. Write 1 in the box for the first step that happens, up to 6 for the last.

A. The joined cell grows into a seed inside the ovary. ☐

B. An insect or the wind carries pollen from an anther to a stigma (pollination). ☐

C. The seed lands in soil and grows into a new plant. ☐

D. A sex cell from the pollen travels down to the ovary. ☐

E. The seed is carried away by wind, water or an animal. ☐

F. The sex cell joins an egg cell in the ovary (fertilization). ☐

Which step came first? Tell why it has to come before the others.

PREVIEW

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My name _____ Date _____

True or False 1

Is it true or false? Check one.

Check true or false for each sentence.

1. Asexual reproduction needs only one parent. ☐ true ☐ false

2. The offspring of asexual reproduction are exact copies of the parent. ☐ true ☐ false

3. Binary fission makes a seed. ☐ true ☐ false

4. Yeast can reproduce by budding. ☐ true ☐ false

5. Pollen is made in the stigma. ☐ true ☐ false

6. A cutting can grow into a new plant. ☐ true ☐ false

Pick one false sentence. Fix it so it is true.

PREVIEW

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My name _____ Date _____

Short Answers 1

Answer each question in sentences.

Use facts from the readings and the method cards. Write in sentences.

1. What is asexual reproduction? Name two examples.

2. Why is the offspring of asexual reproduction an exact copy of its parent?

3. How is budding different from binary fission?

PREVIEW

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My name _____ Date _____

Explain It

Explain your thinking in sentences.

Use what you know about reproduction. Say why.

Start with: I know that ____ because ____.

1. How are asexual and sexual reproduction alike, and how are they different? Use the word parent.

2. A gardener wants ten plants that are exactly like one tomato plant. Should the gardener use cuttings or seeds? Explain.

3. Plants grown from the seeds of one apple tree are not all alike. Explain why. Use the word fertilization.

PREVIEW

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My name _____ Date _____

Quiz B

Pick the best answer. Write its letter.

Take your time. Guess if you are not sure.

7 What is fertilization?

A One cell splitting in two
B A stem growing roots
C Two sex cells joining

8 Where is pollen made?

A In the anther
B In the stigma
C In the sepal

9 What does the ovary of a flower hold?

A Spores
B Egg cells
C Pollen

10 What can a seed grow into?

A A new plant
B A new bud
C A spore

11 Which statement is true of sexual reproduction?

A The offspring are exact copies
B Only one parent is needed
C The offspring get a mix of traits

12 Which pair is a right match?

A Pollination: sexual reproduction
B Budding: sexual reproduction
C Binary fission: sexual reproduction

PREVIEW

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My name _____ Date _____

Check My Own Work

Check your own work. Mark yes or not yet.

1	I can say what asexual reproduction is.	☐ yes	☐ not yet
2	I can say what sexual reproduction is.	☐ yes	☐ not yet
3	I can name four ways living things reproduce with one parent.	☐ yes	☐ not yet
4	I can name the parts of a flower used to make seeds.	☐ yes	☐ not yet
5	I can put the steps from pollination to a new plant in order.	☐ yes	☐ not yet
6	I can tell why a clone is an exact copy of its parent.	☐ yes	☐ not yet
7	I can explain why plants grown from seeds can differ from each other.	☐ yes	☐ not yet
8	I can fill in a Venn diagram that compares the two kinds.	☐ yes	☐ not yet

The part I can explain best is...

The part I still need help with is...

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Cut and Sort: Real Examples

Cut out the eight pieces. Sort each one into the right box.

Read each piece. Is it asexual or sexual reproduction?

Asexual	Sexual

PREVIEW

Cut on the dashed lines: eight pieces, one cut across and three cuts down.

A bean flower makes seeds	A yeast cell buds	Bacteria divide in two	An apple flower gets pollen
A geranium cutting grows roots	Sunflower seeds grow into new plants	A mold makes spores	A pumpkin flower and its seeds

Which piece surprised you? Why?

Answer Key: Example, Flower, Venn, Chart

Accept any correct answer that matches the method cards. Chart answers come from the cards.

Worked Example: your turn page 10

Step	Answer
Step 1 key words	pollen / seed
Step 2 parents	Two (pollen from one plant, an egg cell in a flower)
Step 3 kind	Sexual reproduction
Check	No: a seed from sexual reproduction gets a mix of traits from two parents.

Label the Flower page 13

Number	Part
1	petal
2	anther
3	stigma
4	ovary
5	sepal
6	stem

Fill In the Venn Diagram page 14

Box	Letters	Facts
Only asexual	B, C, F	Needs only one parent; Bacteria splitting and yeast budding are examples; The offspring is an exact copy of its parent
Both	D, G	Makes new living things; The offspring gets its traits from its parent or parents
Only sexual	A, E, H	The offspring is a mix of traits from two parents; A bean flower making seeds is an example; Two sex cells join

Fill In the Chart page 15

Method	Kind	Parents	Offspring
Binary fission	asexual	one	exact copies
Budding	asexual	one	exact copies
Spores	asexual	one	exact copies
Cuttings	asexual	one	exact copies
Pollination and seeds	sexual	two	a mix of both

PREVIEW

Answer Key: Writing

These pages have no single right sentence. Accept any answer that uses a fact from the readings or the method cards.

Short answers: what to look for pages 20, 21

Item	Look for
20.1	Making a new living thing from one parent. Any two: binary fission, budding, spores, cuttings.
20.2	Only one parent gives its material to the offspring, so nothing new is mixed in.
20.3	In budding a small bud grows on the parent and breaks off. In binary fission one cell splits into two cells of about the same size. Both have one parent.
21.1	Two sex cells join and make a new cell that can grow into a new living thing. In a flower, a sex cell in pollen joins an egg cell.
21.2	Pollen lands on the stigma; a sex cell travels to the ovary and joins an egg cell (fertilization); the joined cell grows into a seed.
21.3	Each seed comes from a different joining of sex cells, so each gets a different mix of traits from its parents.

Explain it: what to look for page 22

Item	Look for
22.1	Alike: both make new living things that get traits from a parent or parents. Different: asexual needs one parent and makes exact copies; sexual joins two sex cells and makes offspring with a mix of traits.
22.2	Cuttings. A cutting has one parent, so each new plant is an exact copy. Seeds come from sexual reproduction and give a mix of traits.
22.3	Each seed comes from fertilization, a different joining of a sex cell and an egg cell, so each gets a different mix of traits.

Exit tickets

- Exit tickets (page 26): ticket 1 names one method and says how many parents it needs (one for fission, budding, spores and cuttings; two for seeds); ticket 2 names an asexual example and a sexual example; ticket 3 is open.

PREVIEW

Reproduction Unit Tracker

One student, every scored sheet. Filled example: page 40.

Student _____ Teacher _____ Month _____

Page	Page type and set	Items	Right	Date	Notes
5	Reading 1: One Parent	3			
6	Reading 2: Two Parents	3			
9	Reproduction Words	6			
11	Match the Parts	8			
12	Which Method?	8			
13	Label the Flower	6			
14	Fill In the Venn Diagram	8			
15	Fill In the Chart	15			
16	Put the Steps in Order	6			
17	Fill In the Story	6			
18	True or False 1	6			
19	True or False 2	6			
23	Find the Mistake	4			
24	Quiz A	6			
25	Quiz B	6			
28	Cut and Sort: Which Kind?	9			
29	Cut and Sort: Real Examples	8			

How to fill this in

Write how many items the student got right with no prompt, and the date. A blank means not tried yet, never wrong. There are 114 items on the 17 scored sheets. Answer keys: pages 30 to 35. Filled example: page 40.

This unit we are working on (your own standard or wording)

PREVIEW

Team Note

Use this page between team meetings or when a student moves classes, to hand off what changed without writing a note from scratch. Everything below is observable, with a blank for the number or the wording your team already uses.

Student _____ Team member _____ Date _____

Kind of sheet	Covered since last note (Y/N)	Items right	Still blank
Readings and words			
Matching			
Flower and Venn			
Order and story			
True or false			
Find the mistake			
Quizzes			
Sorts			

What I saw (observable, not a conclusion)

- Matched ___ of 16 parts and clues (pages 11, 12).
- Labeled ___ of 6 parts of the flower (page 13).
- Put ___ of 6 steps in order (page 16).
- Got ___ of 12 true or false sentences right (pages 18, 19).
- Said how many parents one method needs in a complete sentence: yes / no / with a reminder.

Next step

- Next page or set: ___, because ___ (what you saw).
- What to try in another class or at home: ___.
- What to keep doing because it is working: ___.
- Anything for the team meeting to decide: ___ (this page records what happened, never a label or a plan).

Summary, in one or two sentences, for whoever reads this next

A filled-in line, for reference

"Got 5 of 6 true or false sentences right on 10/20. Next step: reread Reading 1 and ask how many parents asexual reproduction needs." That is the level of detail this page is built for. It matches the filled example on page 40.

PREVIEW

Jordan's Tracker (Invented Student)

Jordan R. is invented; nothing on this page describes a real student. The blank tracker is on page 36.

Student: Jordan R. (an invented student)

Teacher: Ms. Patel (invented)

Month: October

Page	Page type and set	Items	Right	Date	Notes
5	Reading 1: One Parent	3	2	10/6	Mixed up fission and budding
6	Reading 2: Two Parents	3	3	10/7	-
9	Reproduction Words	6	5	10/8	Mixed up clone and offspring
11	Match the Parts	8	6	10/9	Swapped anther and stigma
12	Which Method?	8	7	10/10	Missed the spores clue
13	Label the Flower	6	3	10/13	Named ovary as sepal
14	Fill In the Venn Diagram	8	6	10/14	Put two Both facts in one side
15	Fill In the Chart	15	11	10/15	Left four boxes blank
16	Put the Steps in Order	6	4	10/16	Put the seed before fertilization
17	Fill In the Story	6	5	10/17	Wrote sexual where asexual goes
18	True or False 1	6	5	10/20	Thought the stigma makes pollen
19	True or False 2	6	6	10/20	-
23	Find the Mistake	4	3	10/21	Missed the cutting sentence
24	Quiz A	6	6	10/22	-
25	Quiz B	6	4	10/22	Mixed up the anther and the ovary
28	Cut and Sort: Which Kind?	9	7	10/23	Put a Both piece under asexual only
29	Cut and Sort: Real Examples	8	-	-	-

How to read it

Jordan R. has done **16 of 17** scored sheets and got **83 of 106** items right with no prompt. **3** sheets were all right and **13** carry a note. Every number comes from the table.

What the table points to

The lowest sheet is Label the Flower (3 of 6). That is where the next practice goes. The 1 sheet left blank is not tried yet, never wrong.

PREVIEW