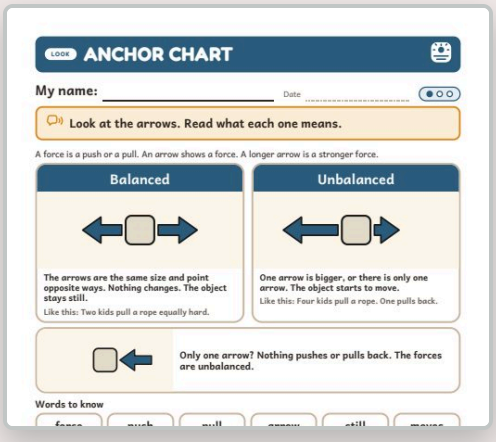
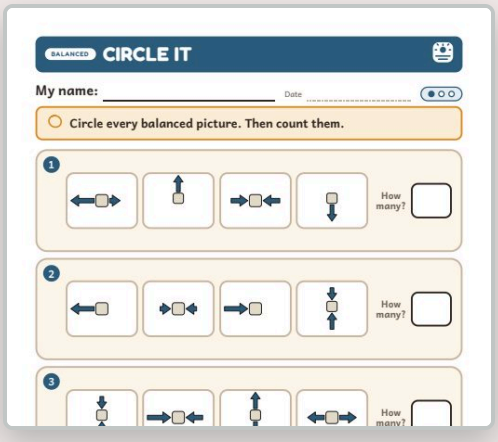
1ST–3RD · SCIENCE

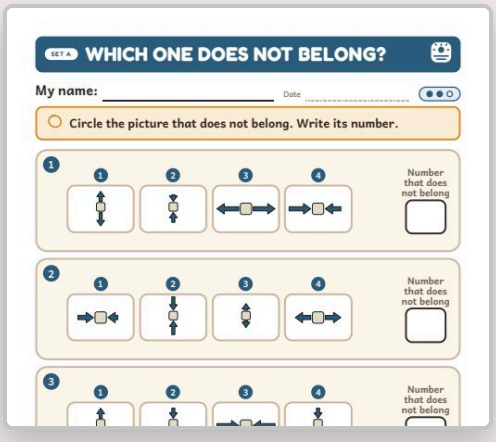
ARROWS

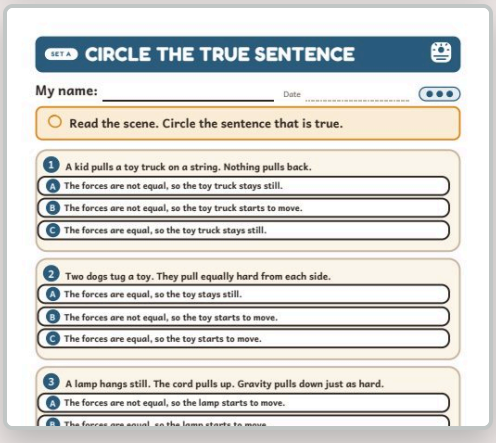
BALANCED & UNBALANCED FORCES

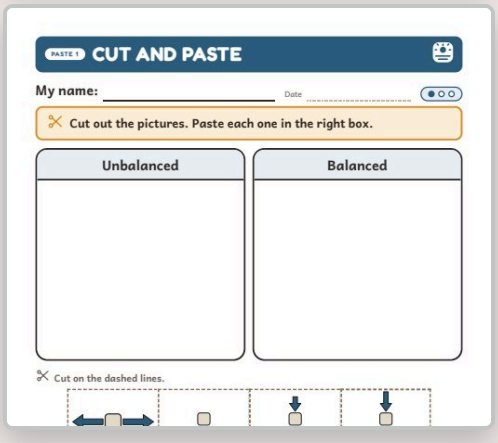
Read the anchor chart, then circle arrow pictures, find the one that does not belong, count, fill in the word, choose the true sentence, draw the arrows and cut and paste onto a sort mat. A tracker, a class grid and a family update. Print, or type the names and trackers. PDF.

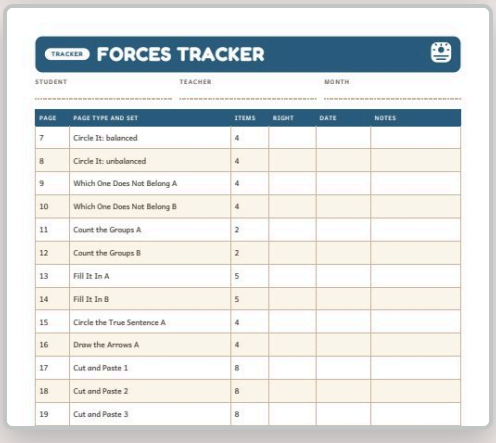












30 Pages | **9 Page Types** | **62 Items** | **16 Scenes**

BRIGHT PATH SPED

START HERE

QUICK START

One complete kit for balanced and unbalanced forces. Children read an anchor chart, circle arrow pictures, find the one that does not belong, count, fill in the word, choose the true sentence, draw the arrows and cut and paste onto sort mats — on pages with room to work, untimed.

THREE STEPS

1. **Read the Anchor Chart together**
   Page 5 shows what balanced and unbalanced arrows look like, and page 6 is an arrow mat the child can keep beside them. Read both aloud, then let the child draw arrows of their own.

2. **Hand over a page**
   Every student page opens with a name line and one short instruction, and the boxes are big. Nothing on it is written for you, so the child can start. The chart below says which page for which child; the dots at the top right are the only level code.

3. **Check it, record it, send it home**
   The answer keys are pages 20 and 21. Date each page on the tracker (page 22), roll a group up on page 23, and send the home page (25). A filled example is on page 26.

WHICH PAGE, WHEN

WHEN…	USE…
Meeting the idea for the first time	Anchor Chart, page 5 · Arrow Mat, page 6
Looks at one picture at a time	Circle It, pages 7, 8
Needs to cut, paste and place	Cut and Paste, pages 17, 18, 19
Rushes and does not check	Which One Does Not Belong?, pages 9, 10
Ready to count and write the word	Count the Groups, pages 11, 12 · Fill It In, pages 13, 14
Ready to read a scene and decide	Circle the True Sentence, page 15 · Draw the Arrows, page 16
Ready to practice at home	Home page, page 25 · notes: page 24, phrase bank 27

Everything inside (30 pages)

- **15 student pages** in 9 page types: Anchor Chart, Arrow Mat, Circle It, Which One Does Not Belong?, Count the Groups, Fill It In, Circle the True Sentence, Draw the Arrows and Cut and Paste
- **62 scored items** on 13 pages, every answer computed in code
- **24 cut-and-paste pieces** on 3 sort mats
- **16 invented scenes** (8 balanced, 8 unbalanced), each with its own arrow picture
- **2 answer keys, 1 tracker, 1 class grid**, 1 team note, 1 home page, 1 filled example, 1 phrase bank, 1 binder cover and 6 divider tabs

Print note

Every page prints clean in black and white. The only pictures are arrow shapes, and they work in gray because the length of an arrow, not its color, carries the meaning. Add a real tug-of-war or a classroom push-and-pull demonstration if you like.

LOOK

ANCHOR CHART

My name: _____ Date .....

Look at the arrows. Read what each one means.

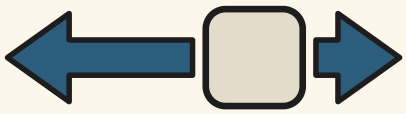
A force is a push or a pull. An arrow shows a force. A longer arrow is a stronger force.

Balanced

The arrows are the same size and point opposite ways. Nothing changes. The object stays still.

Like this: Two kids pull a rope equally hard.

Unbalanced



One arrow is bigger, or there is only one arrow. The object starts to move.

Like this: Four kids pull a rope. One pulls back.

Only one arrow? Nothing pushes or pulls back. The forces are unbalanced.

Words to know

force	push	pull	arrow	still	moves

Your turn. Write what you know.

Balanced means _____

Unbalanced means _____

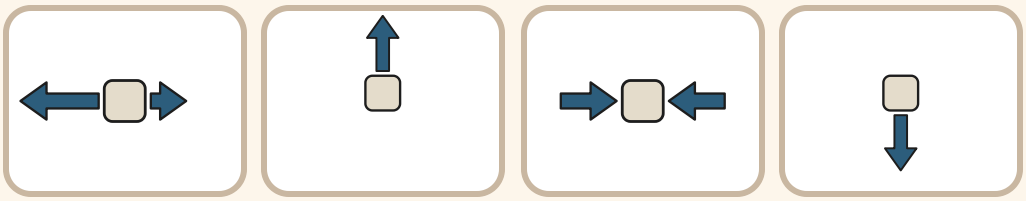
BALANCED

CIRCLE IT

My name: _____ Date .....

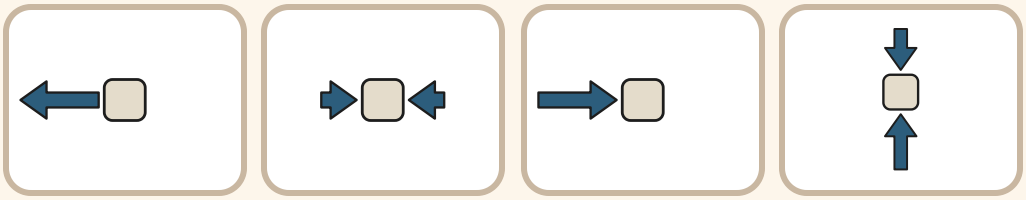
Circle every balanced picture. Then count them.

1



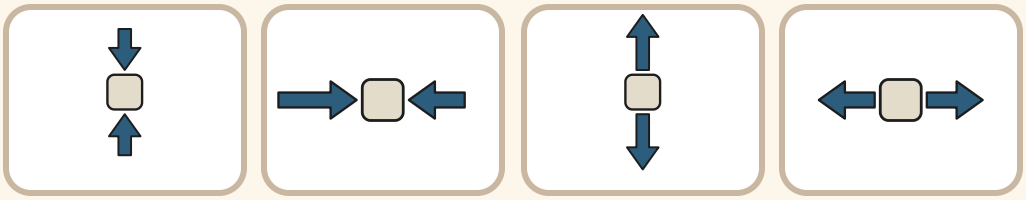
How many? ☐

2



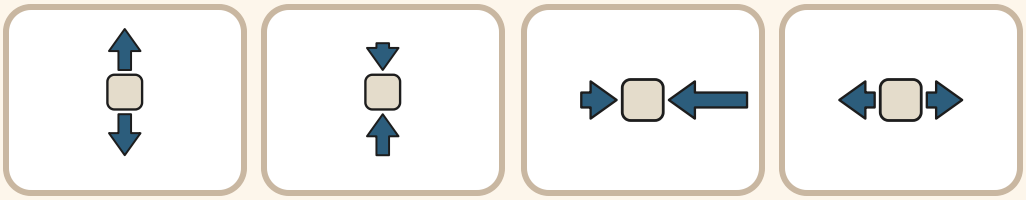
How many? ☐

3



How many? ☐

4



How many? ☐

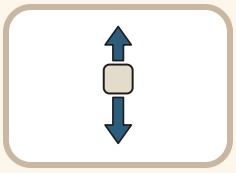
SET A

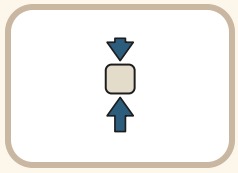
WHICH ONE DOES NOT BELONG?

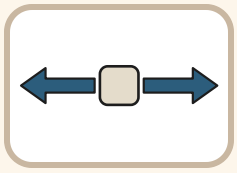
My name: _____ Date .....

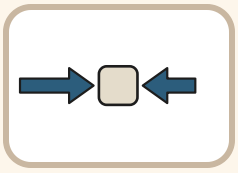
Circle the picture that does not belong. Write its number.

1

1 

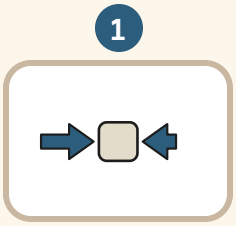
2 

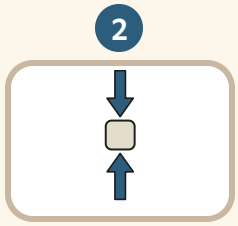
3 

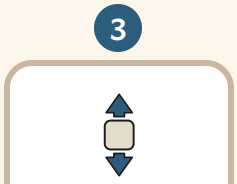
4 

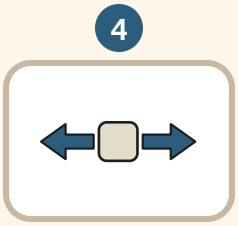
Number that does not belong

2

1 

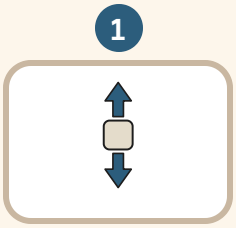
2 

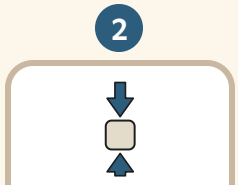
3 

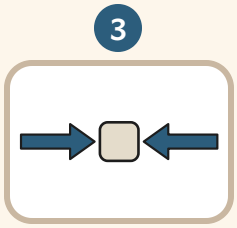
4 

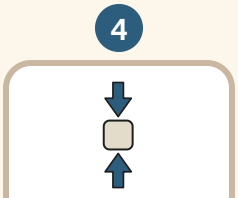
Number that does not belong

3

1 

2 

3 

4 

Number that does not belong

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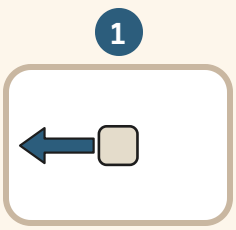
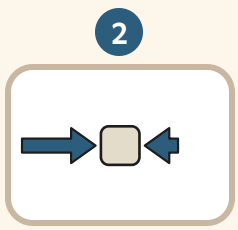
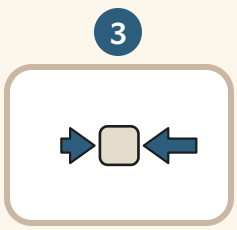
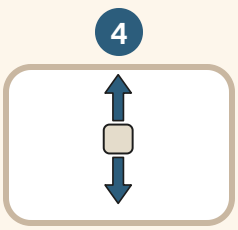
1 

2 

3 

4 

Number that does not belong

SET A

CIRCLE THE TRUE SENTENCE

My name: _____ Date .....

Read the scene. Circle the sentence that is true.

1 A kid pulls a toy truck on a string. Nothing pulls back.

- A The forces are not equal, so the toy truck stays still.
- B The forces are not equal, so the toy truck starts to move.
- C The forces are equal, so the toy truck stays still.

2 Two dogs tug a toy. They pull equally hard from each side.

- A The forces are equal, so the toy stays still.
- B The forces are not equal, so the toy starts to move.
- C The forces are equal, so the toy starts to move.

3 A lamp hangs still. The cord pulls up. Gravity pulls down just as hard.

- A The forces are not equal, so the lamp starts to move.
- B The forces are equal, so the lamp starts to move.
- C The forces are equal, so the lamp stays still.

4 A boy pushes a cart hard. A girl pushes the other way, but not as hard.

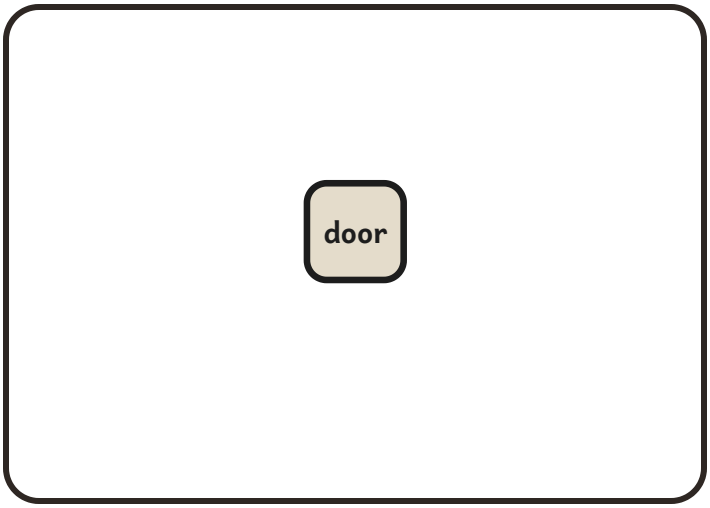
- A The forces are not equal, so the cart stays still.
- B The forces are not equal, so the cart starts to move.
- C The forces are equal, so the cart stays still.

SET A DRAW THE ARROWS

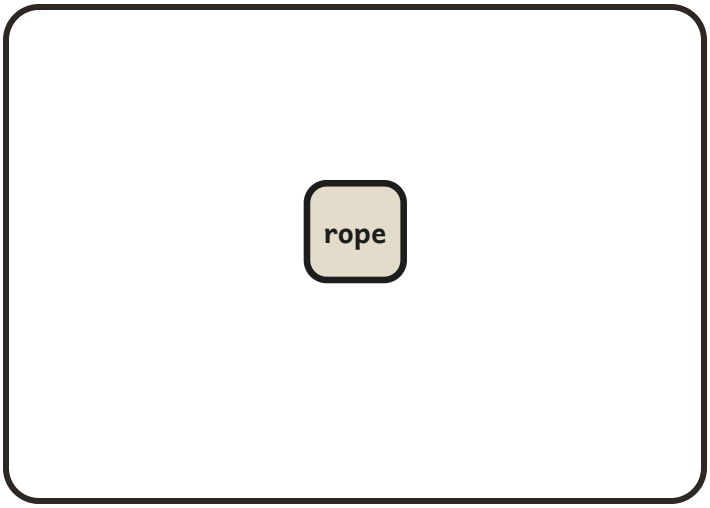
My name: _____ Date .....

Read the scene. Draw the arrows in the box.

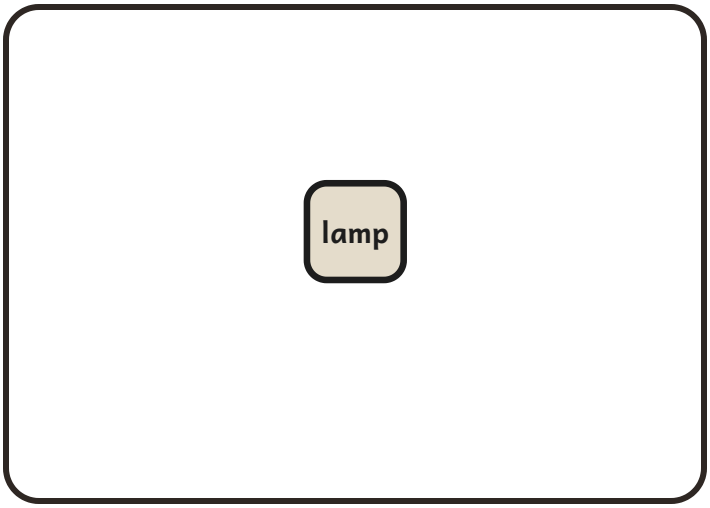
1 Two friends push a door from both sides. They push equally hard.



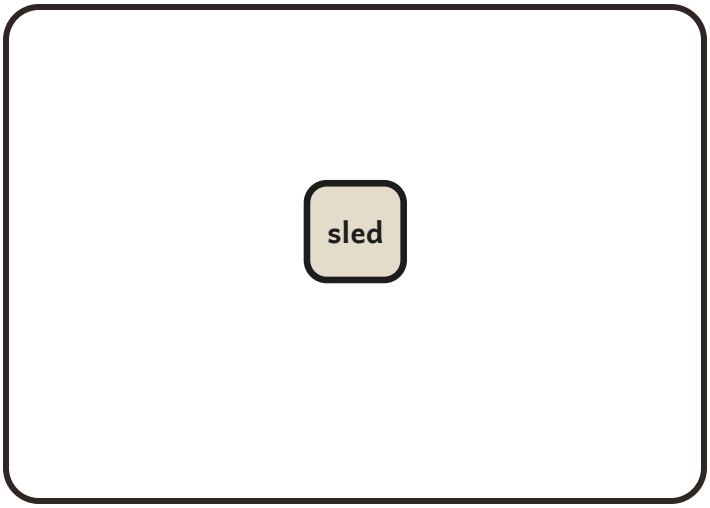
2 Four kids pull one end of a rope. One kid pulls the other end.



3 A lamp hangs still. The cord pulls up. Gravity pulls down just as hard.



4 A girl pushes a sled. Nothing pushes back.



A longer arrow is a stronger force.

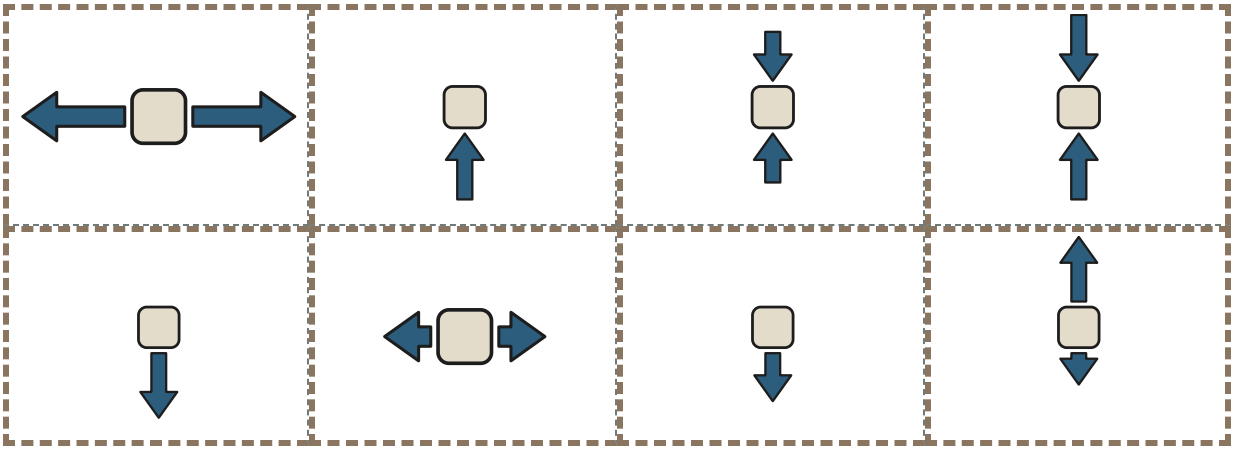
PASTE 1 CUT AND PASTE

My name: _____ Date .....

Cut out the pictures. Paste each one in the right box.

Unbalanced	Balanced

Cut on the dashed lines.



TRACKER

FORCES TRACKER

STUDENT _____ TEACHER _____ MONTH _____

PAGE	PAGE TYPE AND SET	ITEMS	RIGHT	DATE	NOTES
7	Circle It: balanced	4			
8	Circle It: unbalanced	4			
9	Which One Does Not Belong A	4			
10	Which One Does Not Belong B	4			
11	Count the Groups A	2			
12	Count the Groups B	2			
13	Fill It In A	5			
14	Fill It In B	5			
15	Circle the True Sentence A	4			
16	Draw the Arrows A	4			
17	Cut and Paste 1	8			
18	Cut and Paste 2	8			
19	Cut and Paste 3	8			

How to fill this in

Write how many items the child got right with no prompt, and the date. A blank means not tried yet, never wrong. There are 62 items on the 13 pages above; the Anchor Chart and Arrow Mat (pages 5 and 6) are not scored. Answer keys: pages 20 and 21. Filled example: page 26.

THIS MONTH WE ARE WORKING ON (YOUR OWN WORDING)

EXAMPLE THEO'S TRACKER

Theo R. is invented; nothing on this page describes a real student. The blank tracker is on page 22.

STUDENT **Theo R. (an invented student)**

TEACHER **Mr. Bell (invented)**

MONTH **October**

PAGE	PAGE TYPE AND SET	ITEMS	RIGHT	DATE	NOTES
7	Circle It: balanced	4	4	10/12	–
8	Circle It: unbalanced	4	3	10/13	Needed a prompt on one item
9	Which One Does Not Belong A	4	3	10/14	Needed a prompt on one item
10	Which One Does Not Belong B	4	–	–	–
11	Count the Groups A	2	2	10/15	–
12	Count the Groups B	2	–	–	–
13	Fill It In A	5	5	10/16	–
14	Fill It In B	5	–	–	–
15	Circle the True Sentence A	4	–	–	–
16	Draw the Arrows A	4	–	–	–
17	Cut and Paste 1	8	8	10/19	–
18	Cut and Paste 2	8	–	–	–
19	Cut and Paste 3	8	–	–	–

How to read it

Theo R. has done **6 of 13** scored pages and got **25 of 27** items right with no prompt. **4** pages were all right. Every number here comes from the table above.

The family note this tracker would produce

"This month Theo finished 6 pages and got 25 of 27 items right. Theo needed a little help on one item on each of 2 pages; saying how the arrows compare before choosing is the next thing to practice." — every number in it is a row of the table above.

What the table points to

2 pages carry a note and each is one item short of full. Pages left blank (7 of them) are not tried yet, never wrong.

THANK YOU

BEFORE YOU GO

THANK YOU FOR USING THIS RESOURCE

Everything here was built for the teacher who has a table of children who each need a different amount of support sorting and describing what they learn. If this helped, leaving feedback on TPT helps other teachers find it.

Everything inside, one more time

- **15 student pages** in 9 page types, 62 scored items, every answer computed in code from the scenes and arrows on the page.
- **24 cut-and-paste pieces** on 3 sort mats, **2 answer keys**, **1 arrow mat**.
- **1 tracker, 1 class grid, 1 team note, 1 home page, 1 filled example, 1 phrase bank** (16 starters), **1 binder cover** and divider tabs.

No real student anywhere in this file

The filled example on page 26 names "Theo R.," an invented student used only to show how the tracker fills in. No table, note or score anywhere in this resource describes a real child, and nothing here is a clinical judgment, an eligibility timeline, or a medical claim of any kind. Once you fill in a real student's name, the tracker, class grid and team note (pages 22, 23 and 24) do carry real information — keep completed pages secure the same way you would any other record.

Something missing or wrong?

Please use the **Ask a Question** tab on the product page first — every question is read, and a fix to the file is a free update you re-download from **My Purchases**.

WHAT'S NEXT FROM THIS STORE

More force and motion, matter and land and water for the same table.

Push and Pull Worksheets
Circle push or pull, sort and fill in sentences about force and motion.

States of Matter Worksheets
Solid, liquid and gas: sort, circle and fill in.

Landforms and Bodies of Water Worksheets
An anchor chart, circle, odd word and cut and paste for land and water words.

Click **Follow** on the store page and TPT will email you when new products go up.

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