inquisitive

GRADE K · PHYSICAL SCIENCES · FAST PATH

Unit: Forces and Interactions: Pushes and Pulls

Lessons in unit: 4 · 10 teaching days · 20–30 min per day · 290 min total · ★ Checkpoint: individual responses · ↳ Time-saving teaching move

1. Push and Pull

PHENOMENON QUESTION
How do you make a funny face?

OUTCOME
I can show an example of a push and a pull force.

TIME
3 days · 30 min per day
90 min total

DAY 1 · 30 MIN

- 5 MIN — Activity 1
- 15 MIN — Activity 2
  ↳ Read aloud; identify pushes and pulls during the story.
- 10 MIN — Activity 3
  ↳ Take a few ideas for each column; record them on one chart.

DAY 2 · 30 MIN

- 15 MIN — Activity 4
- 10 MIN — Activity 5
  ↳ Demonstrate once; have pairs name pictured examples together.
- 5 MIN — Activity 6

DAY 3 · 30 MIN

- 10 MIN — Activity 7
  ↳ Act out together, then sort; add learned ideas to the class chart.
- 15 MIN — Activity 8 ★
- 5 MIN — Activity 11

2. Speed It Up! Slow It Down!

PHENOMENON QUESTION
Can an elephant move a tree?

OUTCOME
I can show how the strength of a push or pull can change the speed of an object.

TIME
2 days · 30 min per day
60 min total

DAY 4 · 30 MIN

PREP Set out cars; mark a start line.

- 5 MIN — Activity 1
  ↳ After the video, pairs share one hard and one soft push.
- 20 MIN — Activity 2 + Activity 3
  ↳ Keep the same cars for solo pushes, then compare in pairs from one starting line.
- 5 MIN — Activity 4
  ↳ Pairs discuss both photos; take one answer per photo.

DAY 5 · 30 MIN

- 10 MIN — Activity 5
- 15 MIN — Activity 6 ★
- 5 MIN — Activity 9

3. Which Way?

PHENOMENON QUESTION
How does a ball move?

OUTCOME
I can show how the direction of a push or pull can change the direction an object moves.

TIME
3 days · 20–30 min per day
80 min total

DAY 6 · 30 MIN	DAY 7 · 30 MIN	DAY 8 · 20 MIN
PREP Clear a space for the ball circle.	**PREP** Set out shared bins of books, blocks, cups, cardboard tubes, and ping-pong balls.	15 MIN Activity 5 · Part 2 ★
5 MIN Activity 1	5 MIN Activity 4	5 MIN Activity 8
15 MIN Activity 2	25 MIN Activity 5 · Part 1 ★ Keep the mini-golf holes in place, or photograph and print each one for Day 8.	
10 MIN Activity 3		

4. Does It Work?

PHENOMENON QUESTION
Can you move a toy without touching it?

OUTCOME
I can show how to change the speed or direction of an object with a push or pull.

TIME
2 days · 30 min per day
60 min total

Assessment: Anchor Maps and Autogradable Summative Assessments are not included within this pacing guide.

DAY 9 · 30 MIN	DAY 10 · 30 MIN
10 MIN Activity 1	10 MIN Activity 4
10 MIN Activity 2	15 MIN Activity 5 ★
10 MIN Activity 3	5 MIN Activity 8