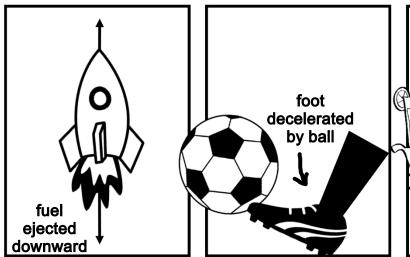


| IFE | XERTS A FORCE ON | , |
|-----------------------|-------------------|-------------|
| THEN OBJECT ${\bf B}$ | EXERTS A FORCE OF | · |
| IN THE | | OF OBJECT A |

$$\vec{F}_{AB} = -\vec{F}_{BA}$$



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| EXERTS A I | FORCE ON, | / I NW N | ב חרדונ | ON & REACTIO | M |
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| OBJECT B EXERTS A FORCE OF | | | <u>r Huiil</u> | | |
| IN THE | OF OBJECT A. | IN EVERY _ | | , FORCES OC | CUR |
| —''' ''' ' | 01 00320111. | IN | | Ç | (|

THESE TWO FORCES ACT IN

WITH

>> YOUR TURN <<

If you were wearing roller skates and pushed against a wall, what would happen? **Draw a diagram below**:

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NEUTON'S 3RD IAW OF

SPIN THE GEARS

Can you find the gears which won't turn?

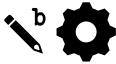
Decide whether the following are true or false.

Newton's 3rd Law of Motion informs us that any action undertaken will result in an opposite and equal action.



True or False? Explain.

True or False? Explain.



Forces occur in pairs, **action** and **reaction**. When a moving ball collides (action) into a stationary one, both move (reaction).

The forces in an action/reaction pair are equal in magnitude, meaning they have different amounts of force.



True or False? Explain.

True or False? Explain.



3

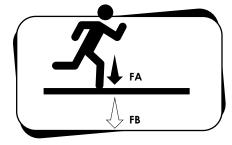


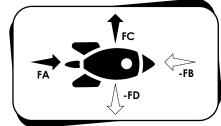
When rowing a boat, you are pushing the paddles forwards, so you move forwards.

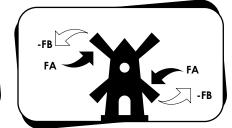
© KNOW BY SIGHT

Can you identify anomalies?

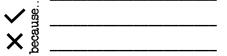
Cross out the following non-examples or incorrect ideas.

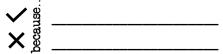






× pecause....





PUZZLE IT OUT

Can you match each puzzle piece?

Connect the terms to the definitions. Watch out! One is missing!

Equal A

Opposite B

1 A path or course showing tendency or facing.

Direction C

2 A push or pull acted upon an object.

H 3rd Law D

4 Being the same in quantity, size, degree or value

Force E

5 Contrary; in a complementary role; opposing