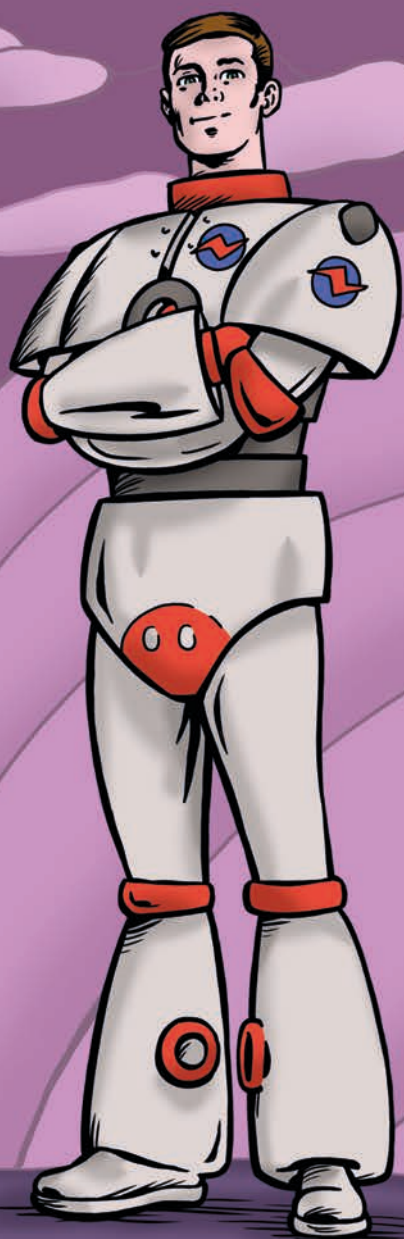
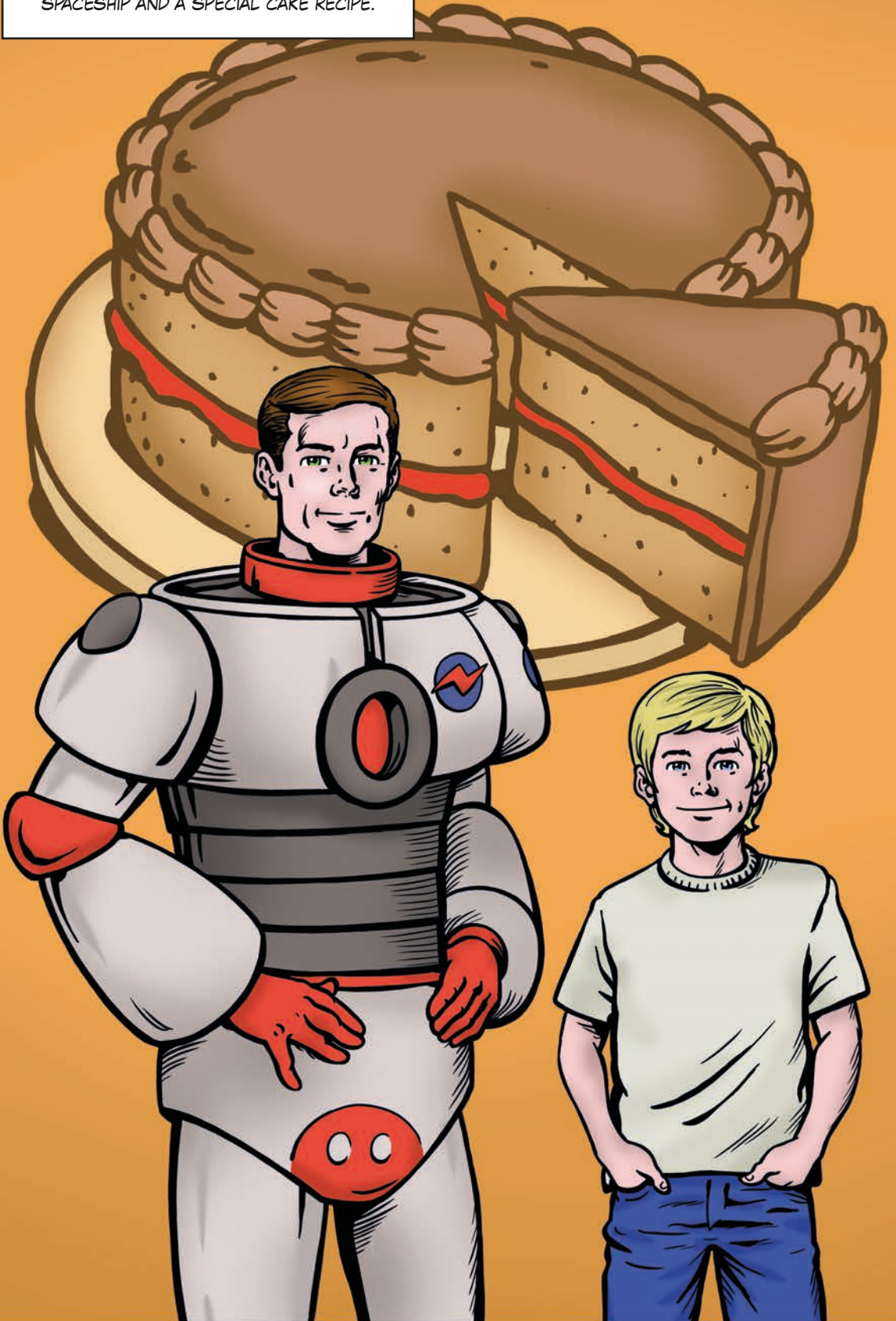
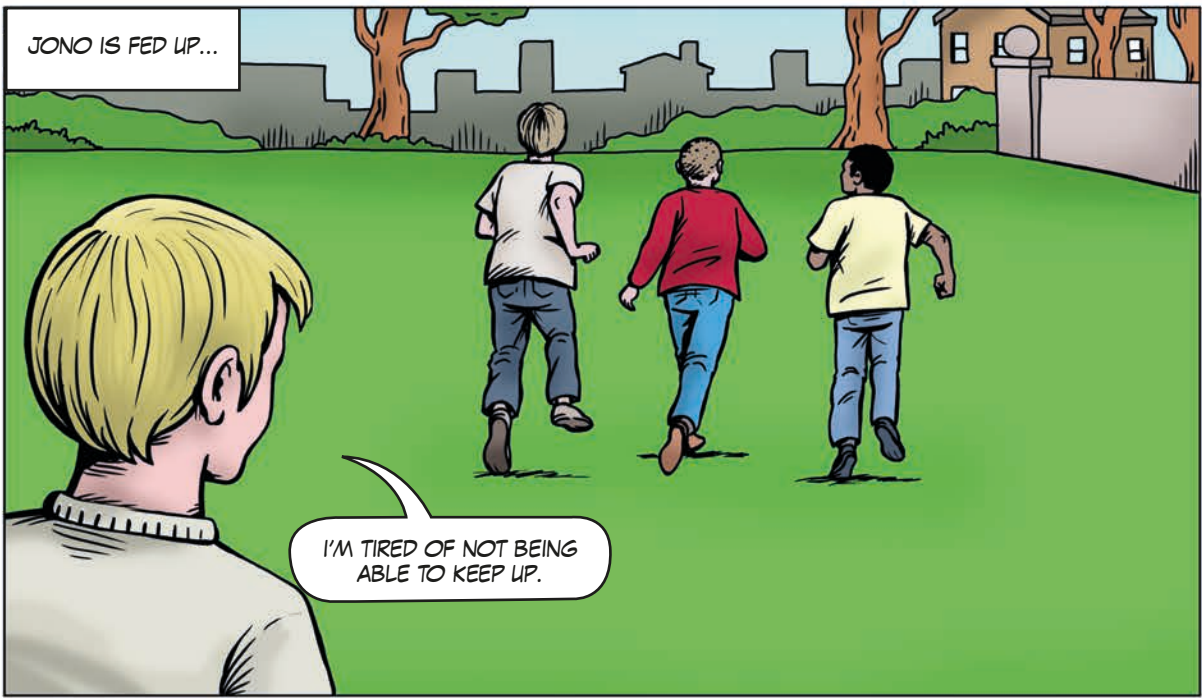


JONO'S JOURNEY INSIDE THE BODY



JONO HAS AN ADVENTURE INVOLVING A SPACESHIP AND A SPECIAL CAKE RECIPE.



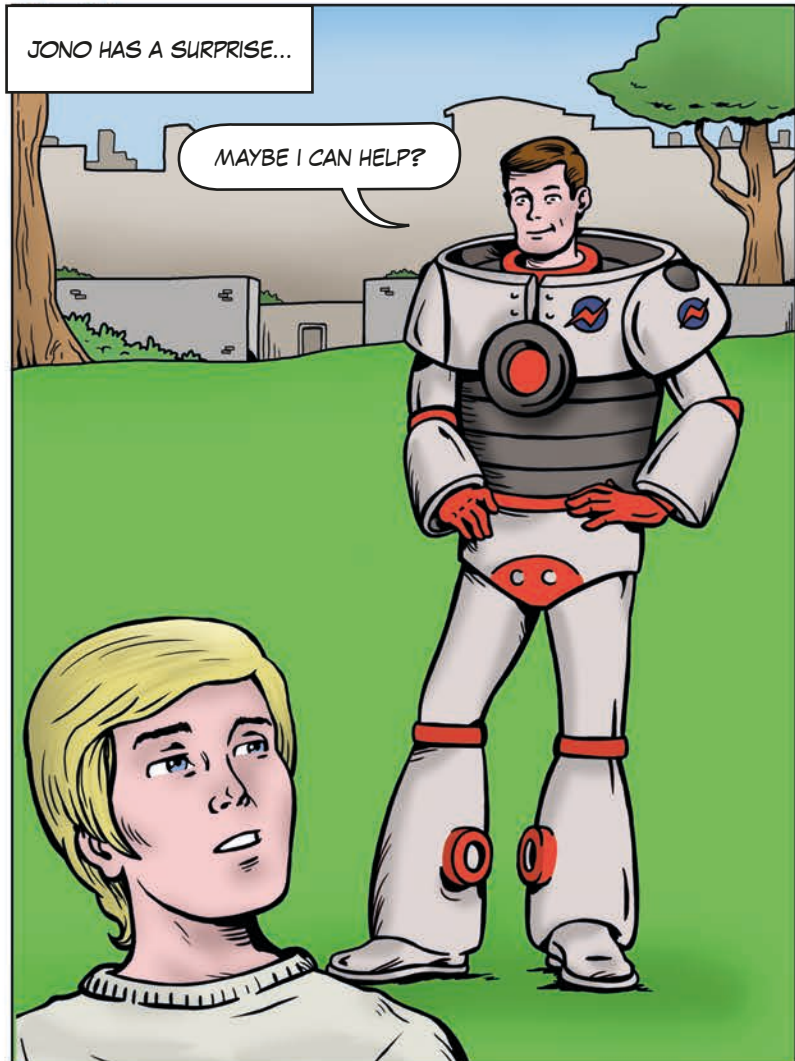


JONO IS FED UP...

I'M TIRED OF NOT BEING ABLE TO KEEP UP.

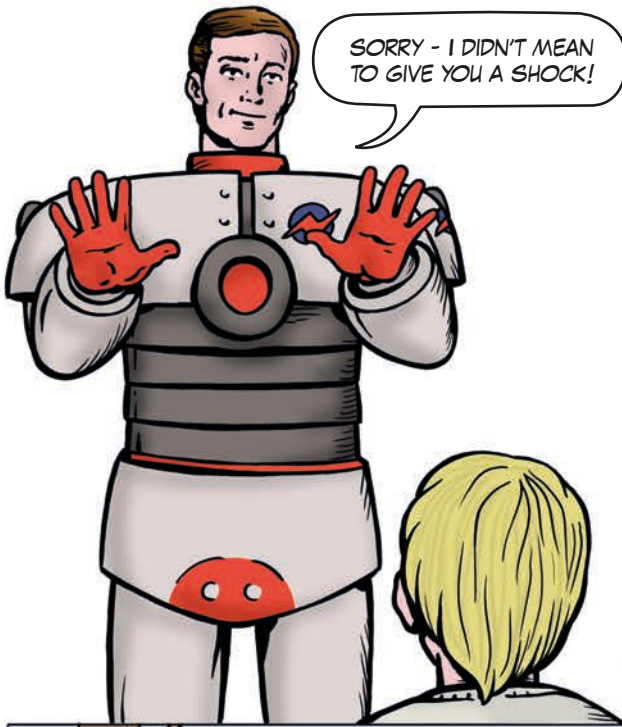


I WISH I KNEW WHY MY MUSCLES DON'T WORK AS WELL AS MY FRIENDS'.



JONO HAS A SURPRISE...

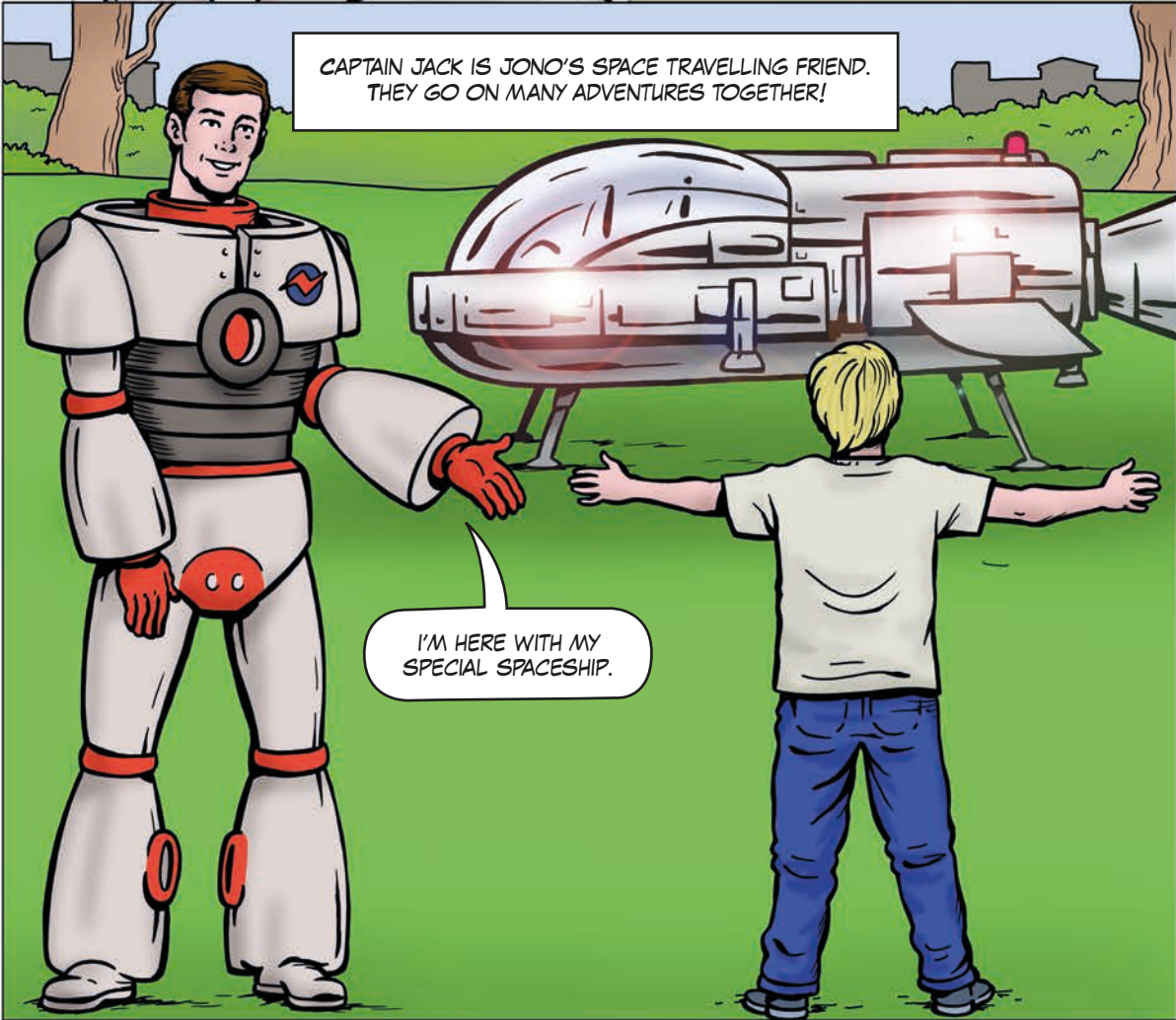
MAYBE I CAN HELP?



SORRY - I DIDN'T MEAN TO GIVE YOU A SHOCK!

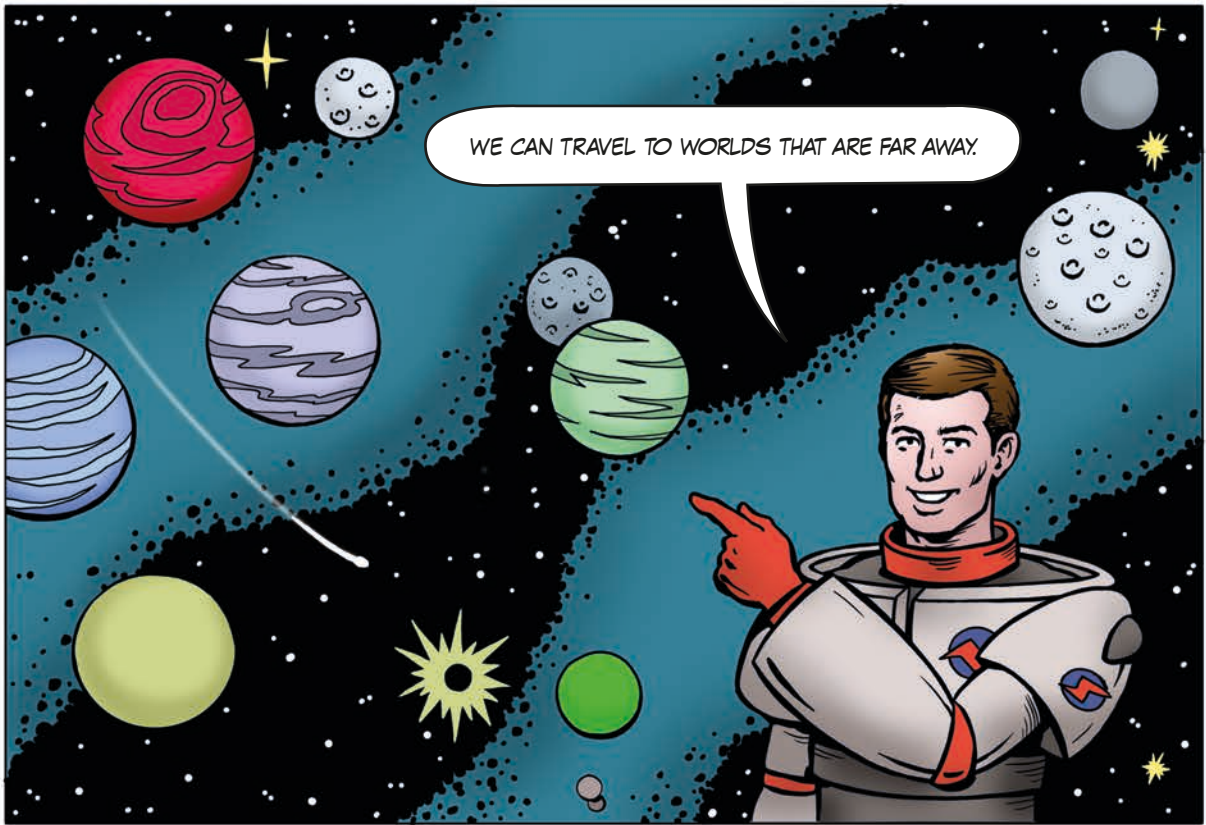


CAPTAIN JACK!!

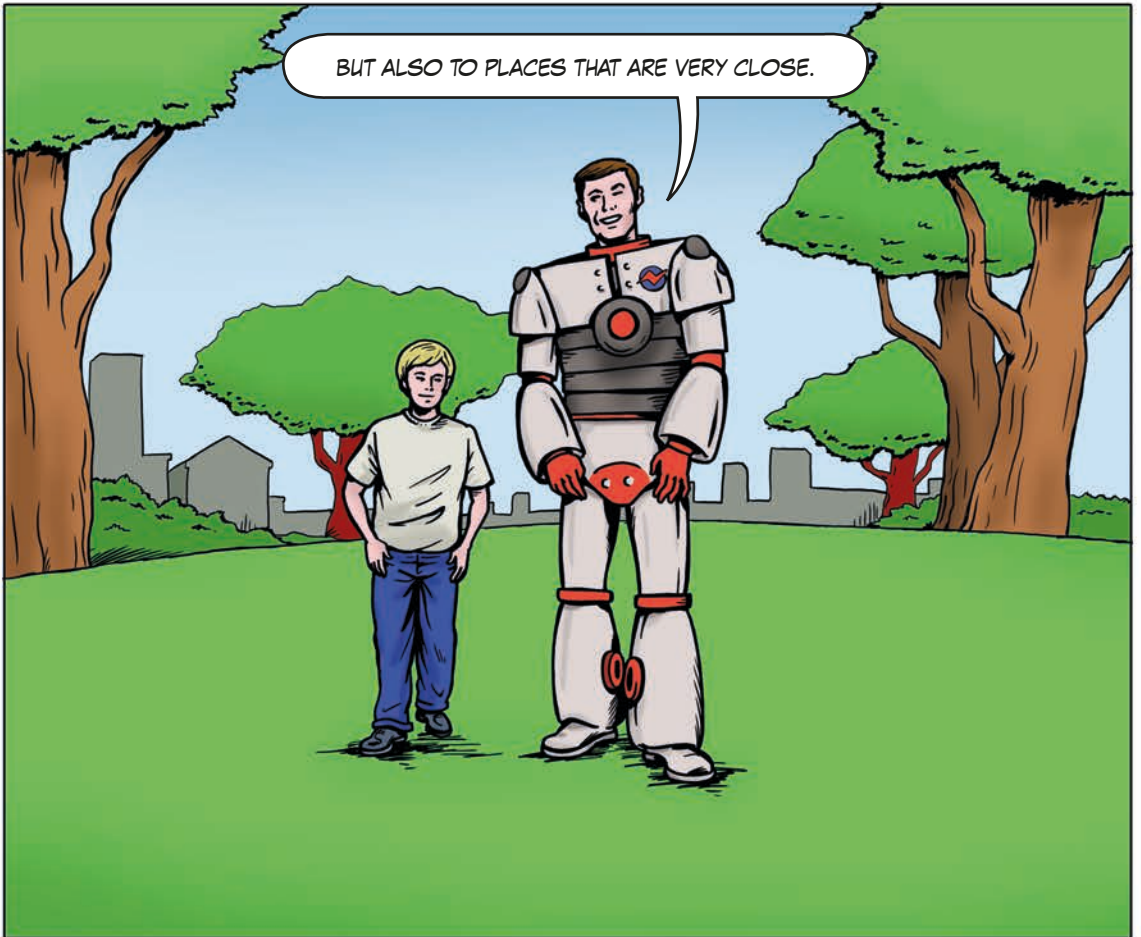


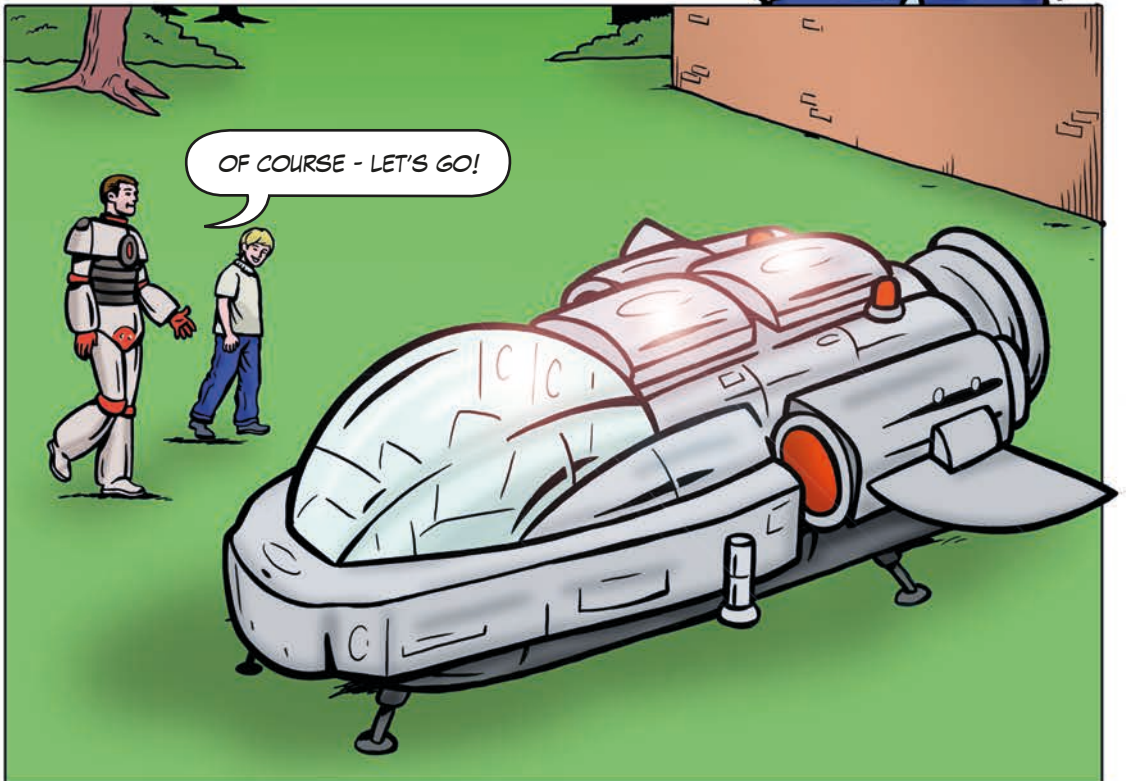
CAPTAIN JACK IS JONO'S SPACE TRAVELLING FRIEND. THEY GO ON MANY ADVENTURES TOGETHER!

I'M HERE WITH MY SPECIAL SPACESHIP.

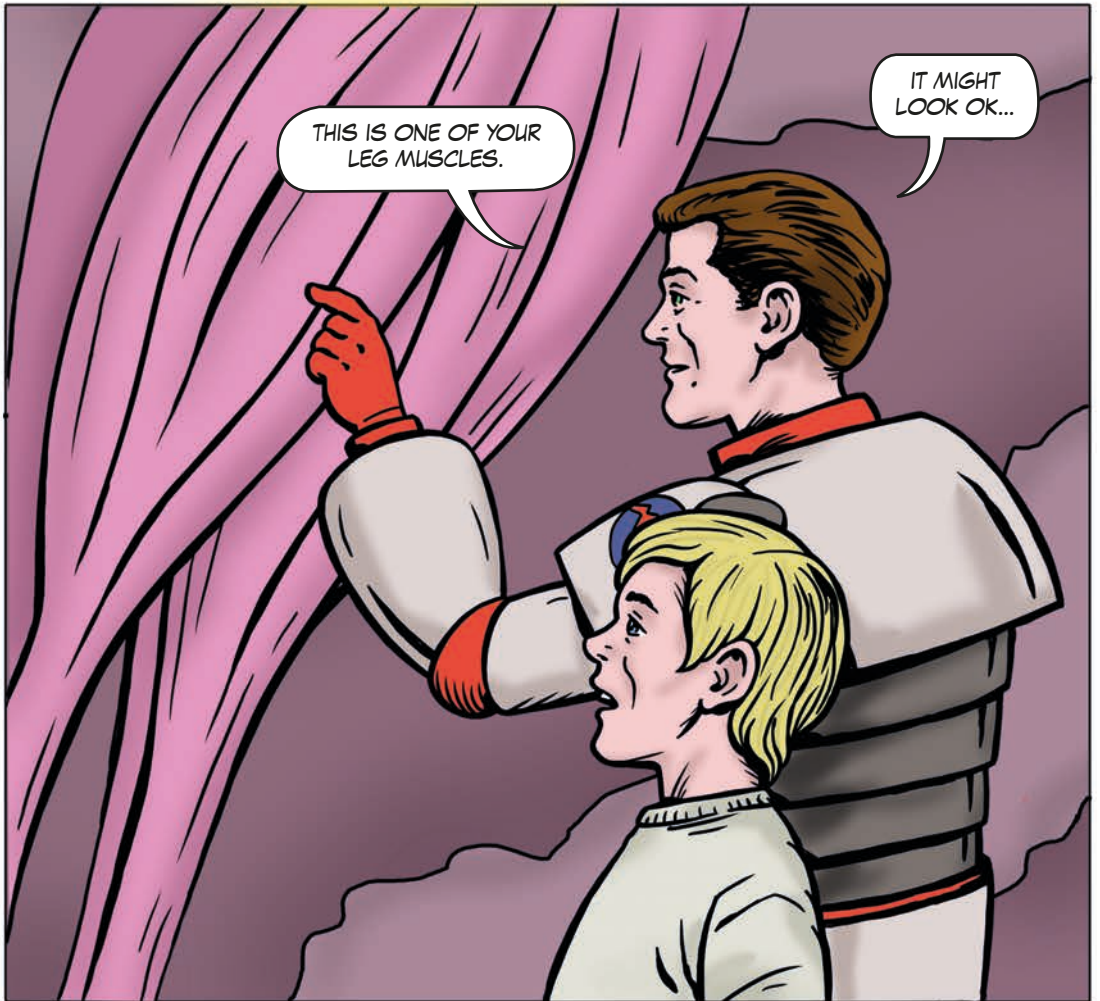
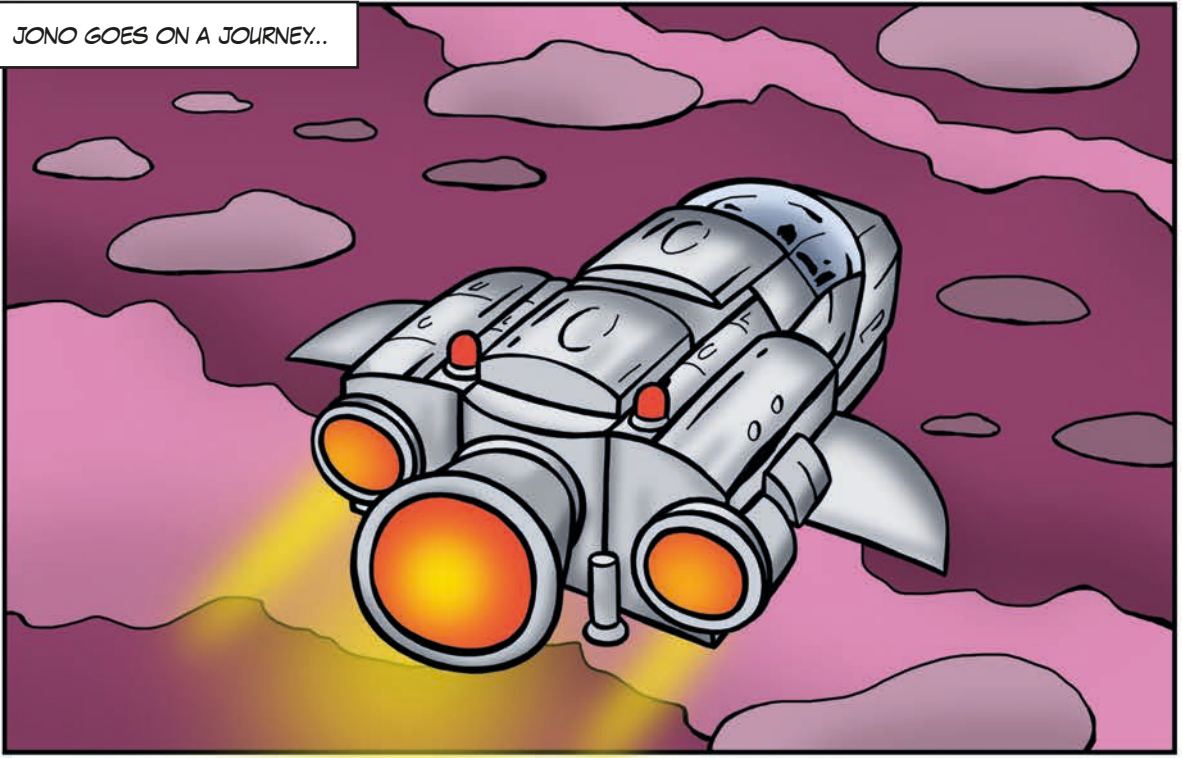


BUT ALSO TO PLACES THAT ARE VERY CLOSE.



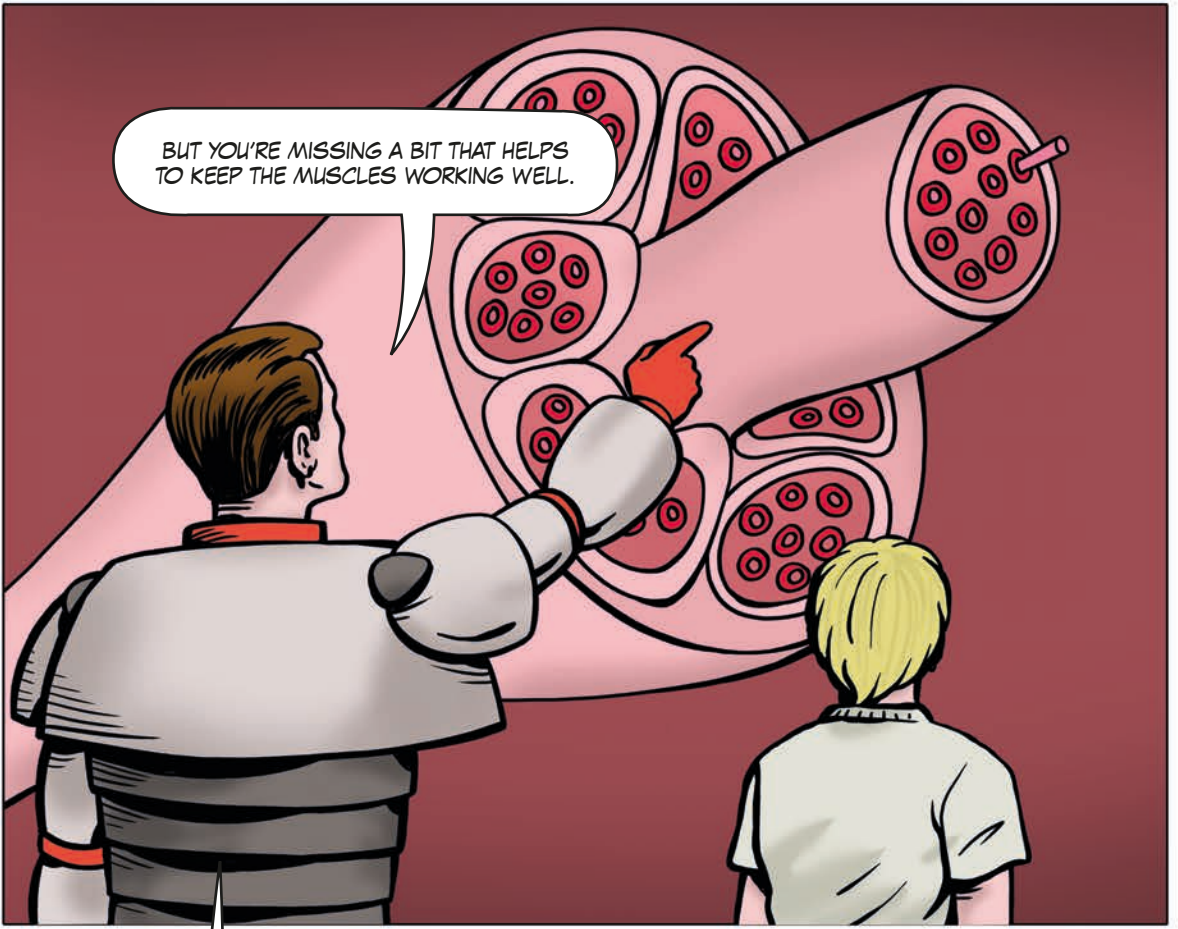


JONO GOES ON A JOURNEY..

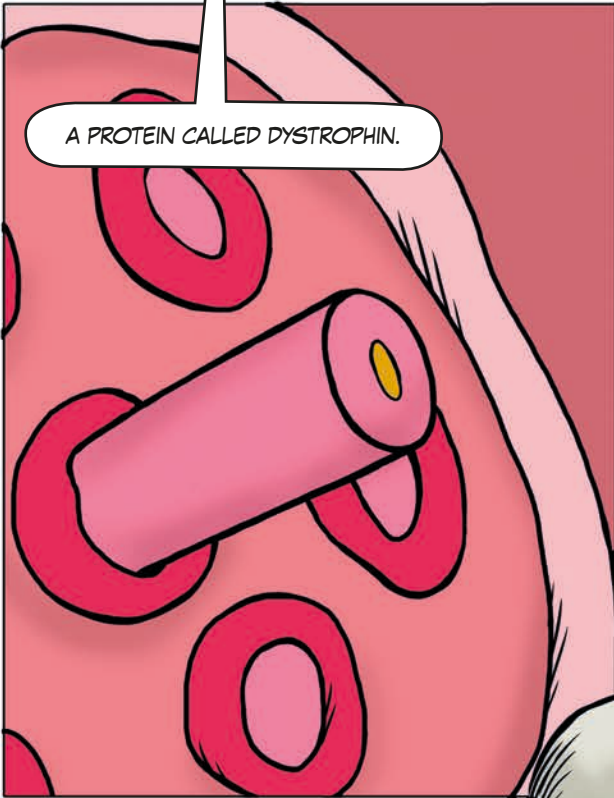


THIS IS ONE OF YOUR
LEG MUSCLES.

IT MIGHT
LOOK OK...



BUT YOU'RE MISSING A BIT THAT HELPS TO KEEP THE MUSCLES WORKING WELL.



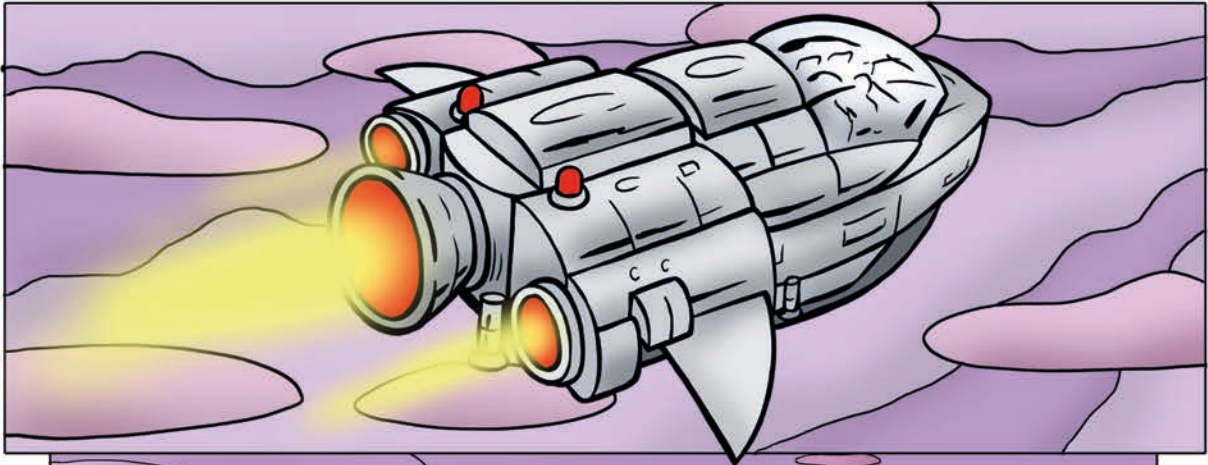
A PROTEIN CALLED DYSTROPHIN.

WHAT'S A PROTEIN?

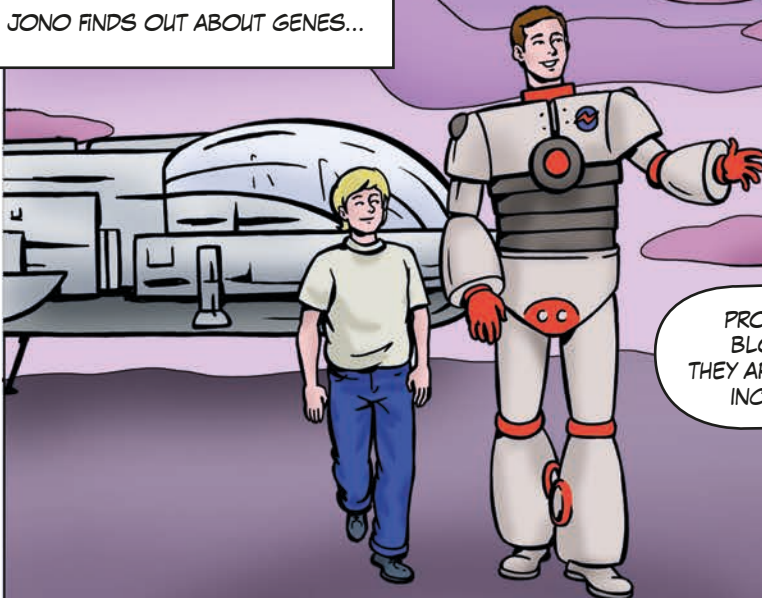


AND WHY IS IT MISSING?!

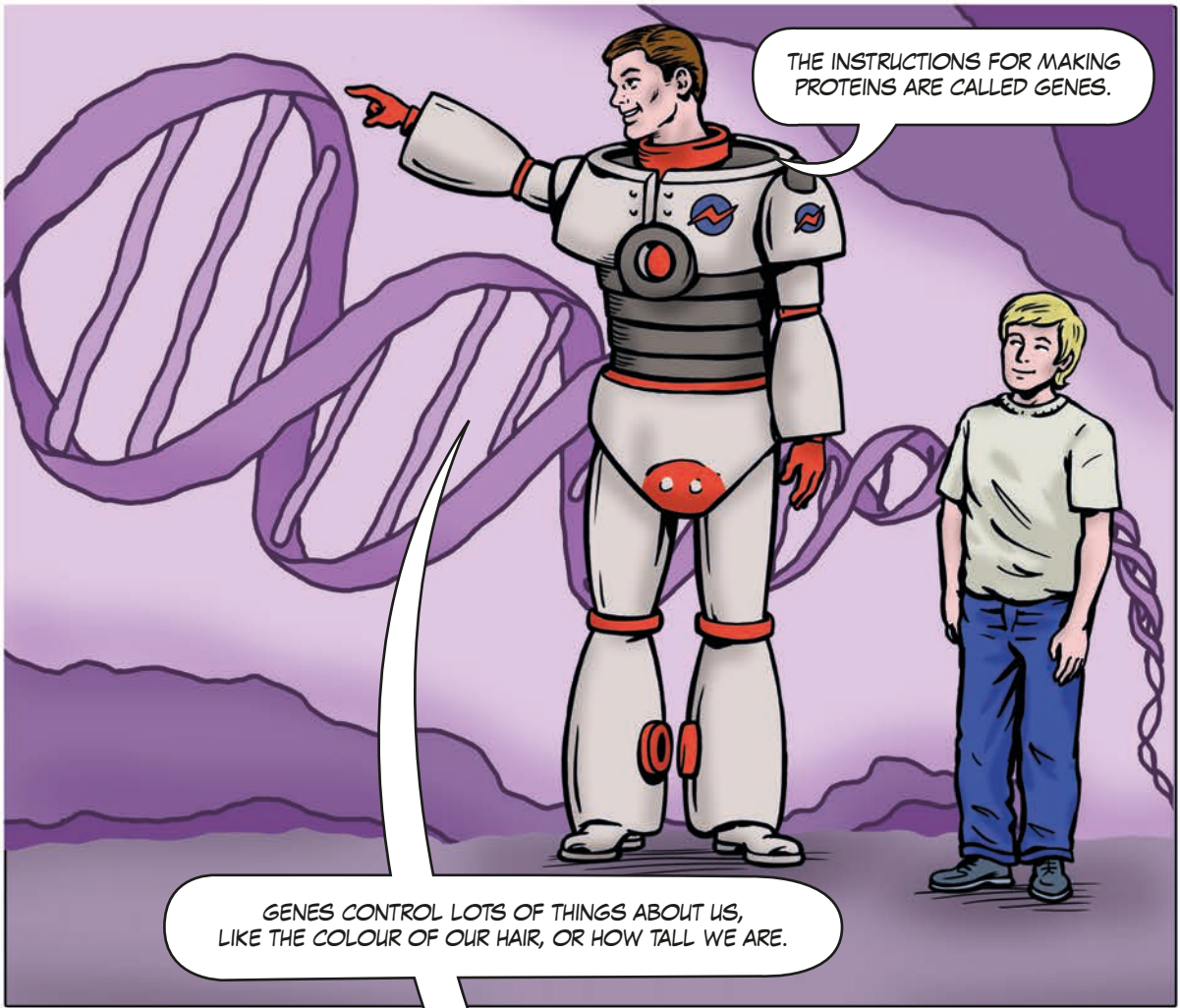
TO FIND OUT, WE'RE GOING TO HAVE TO GO INSIDE ONE OF YOUR CELLS - ARE YOU READY?



JONO FINDS OUT ABOUT GENES...



PROTEINS ARE THE BUILDING BLOCKS OF OUR BODIES - THEY ARE NEEDED TO MAKE CELLS, INCLUDING MUSCLE CELLS.



THE INSTRUCTIONS FOR MAKING PROTEINS ARE CALLED GENES.

GENES CONTROL LOTS OF THINGS ABOUT US, LIKE THE COLOUR OF OUR HAIR, OR HOW TALL WE ARE.

GENES ARE WHAT MAKE US ALL DIFFERENT - AND ALL SPECIAL.





GENES ARE A BIT LIKE A CAKE RECIPE.

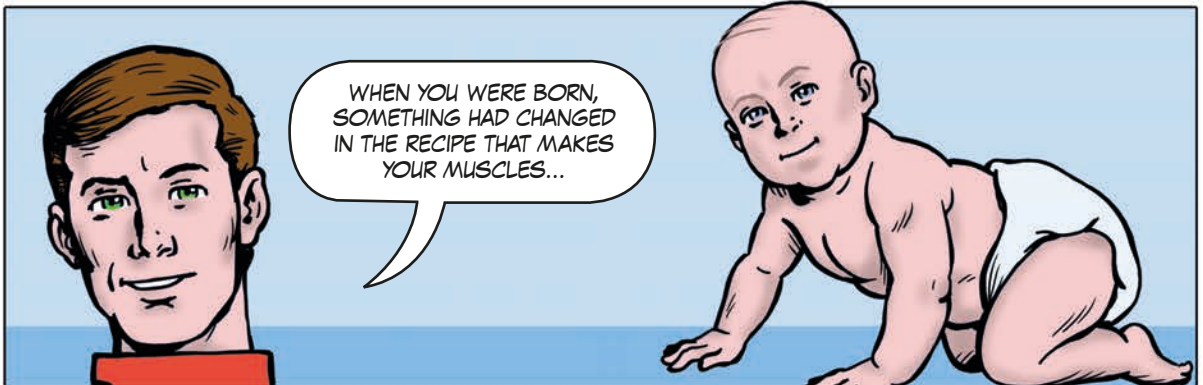
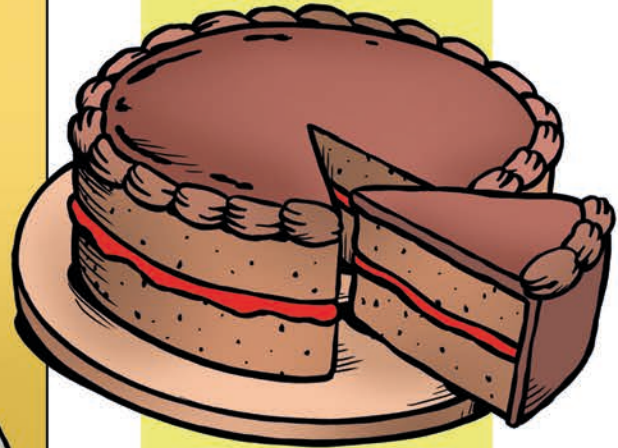


DIFFERENT RECIPES MAKE DIFFERENT TYPES OF CAKE...

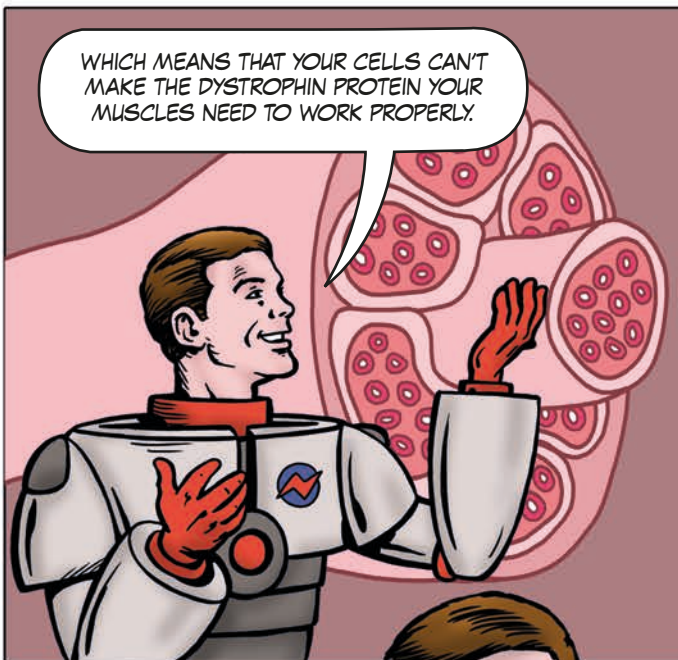
BUT IF YOU FORGET AN INGREDIENT OR DON'T USE THE RIGHT MEASURES THEN THE CAKE MIGHT NOT TURN OUT AS IT SHOULD.



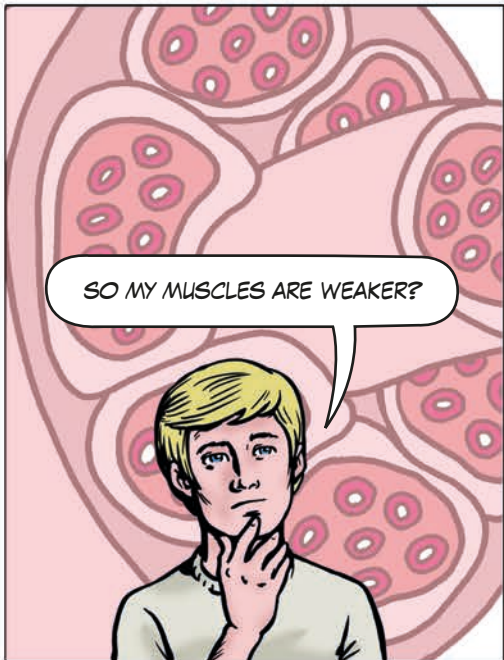
MMM,
CAKE...



WHEN YOU WERE BORN,
SOMETHING HAD CHANGED
IN THE RECIPE THAT MAKES
YOUR MUSCLES...



WHICH MEANS THAT YOUR CELLS CAN'T MAKE THE DYSTROPHIN PROTEIN YOUR MUSCLES NEED TO WORK PROPERLY.



SO MY MUSCLES ARE WEAKER?

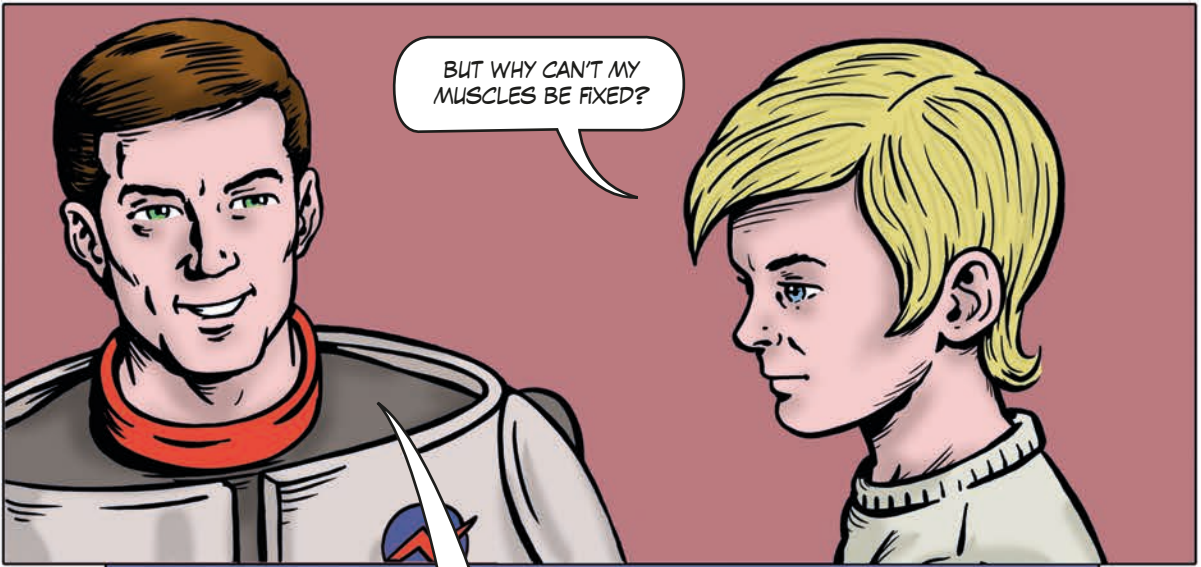


YES. IT'S CALLED DUCHENNE MUSCULAR DYSTROPHY, OR DMD FOR SHORT.

JONO UNDERSTANDS THE PROBLEM.



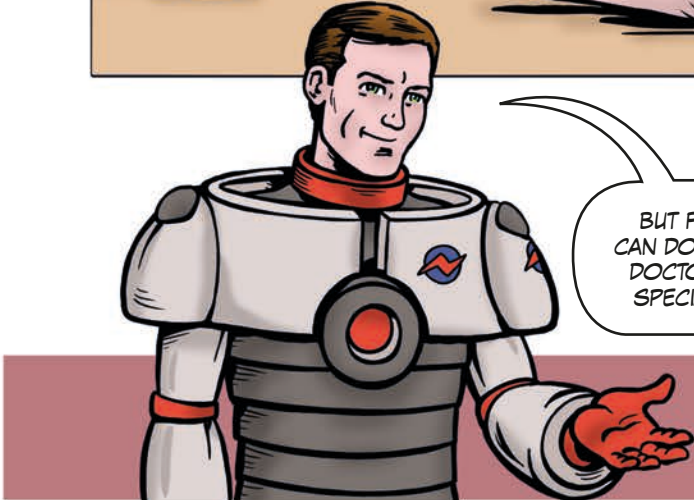
SO THAT'S WHY I GET TIRED!



BUT WHY CAN'T MY MUSCLES BE FIXED?



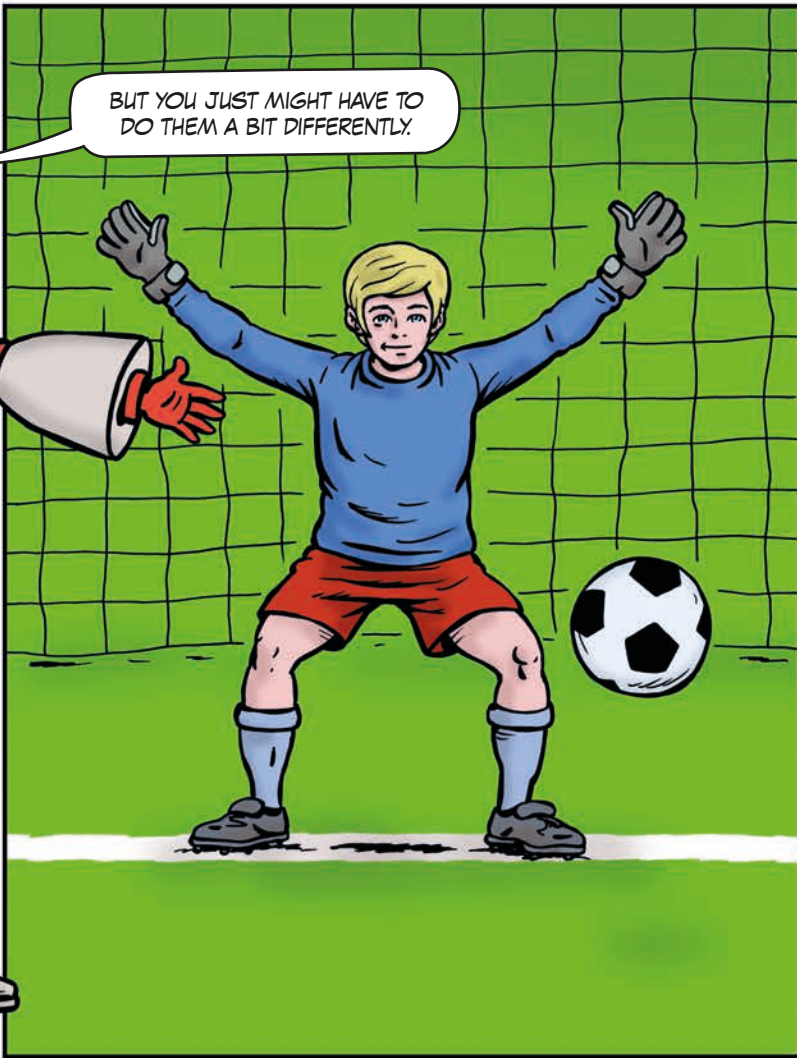
LOTS OF SCIENTISTS AND DOCTORS ARE LOOKING FOR WAYS TO MAKE THE MUSCLES STRONG AGAIN.



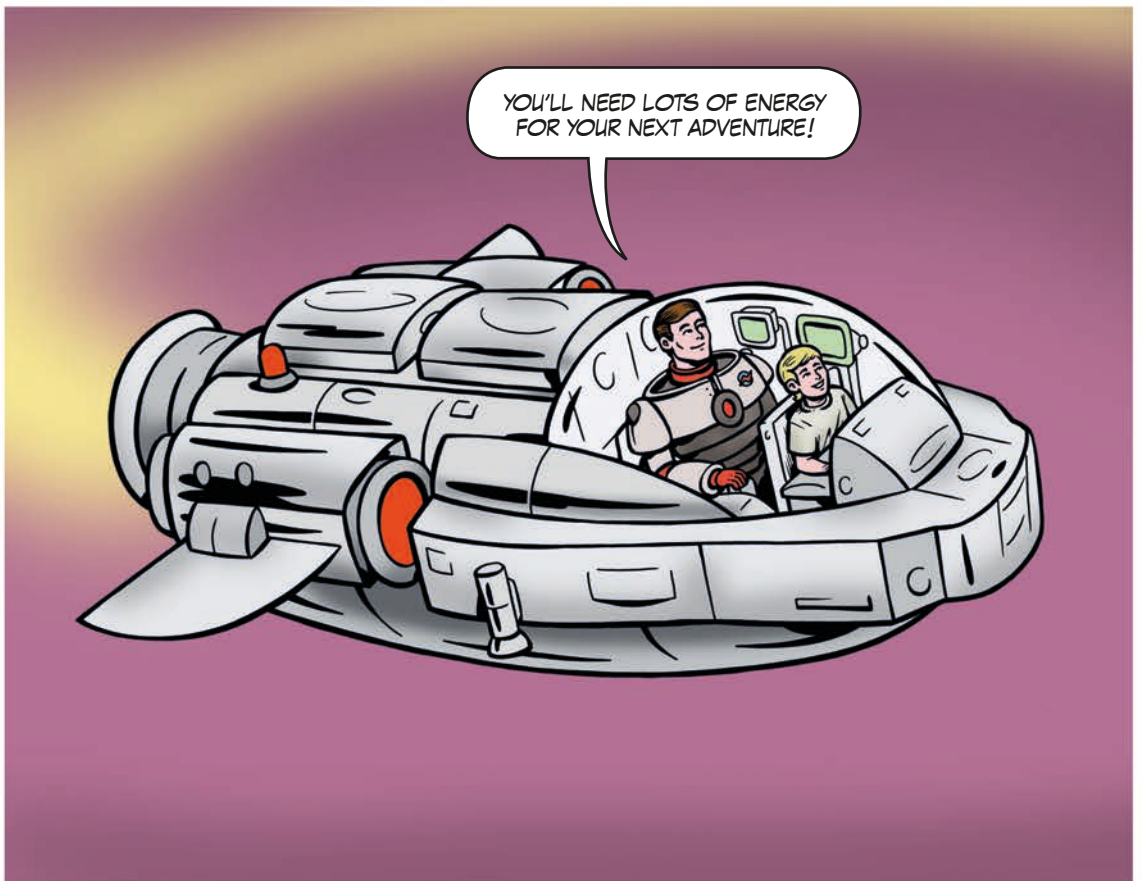
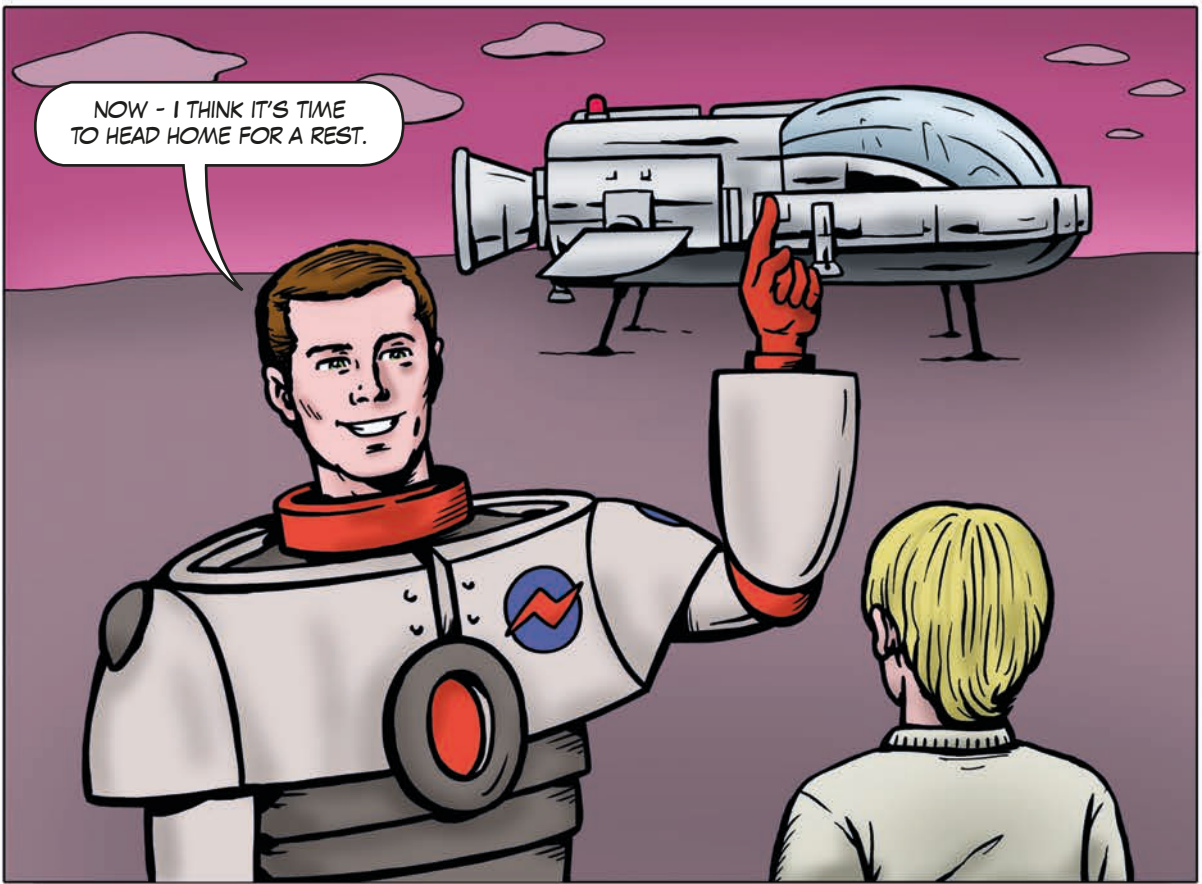
BUT FOR NOW, THE BEST THING YOU CAN DO IS TO TAKE THE MEDICINES YOUR DOCTOR GIVES YOU, AND TO DO YOUR SPECIAL STRETCHES AND EXERCISES.

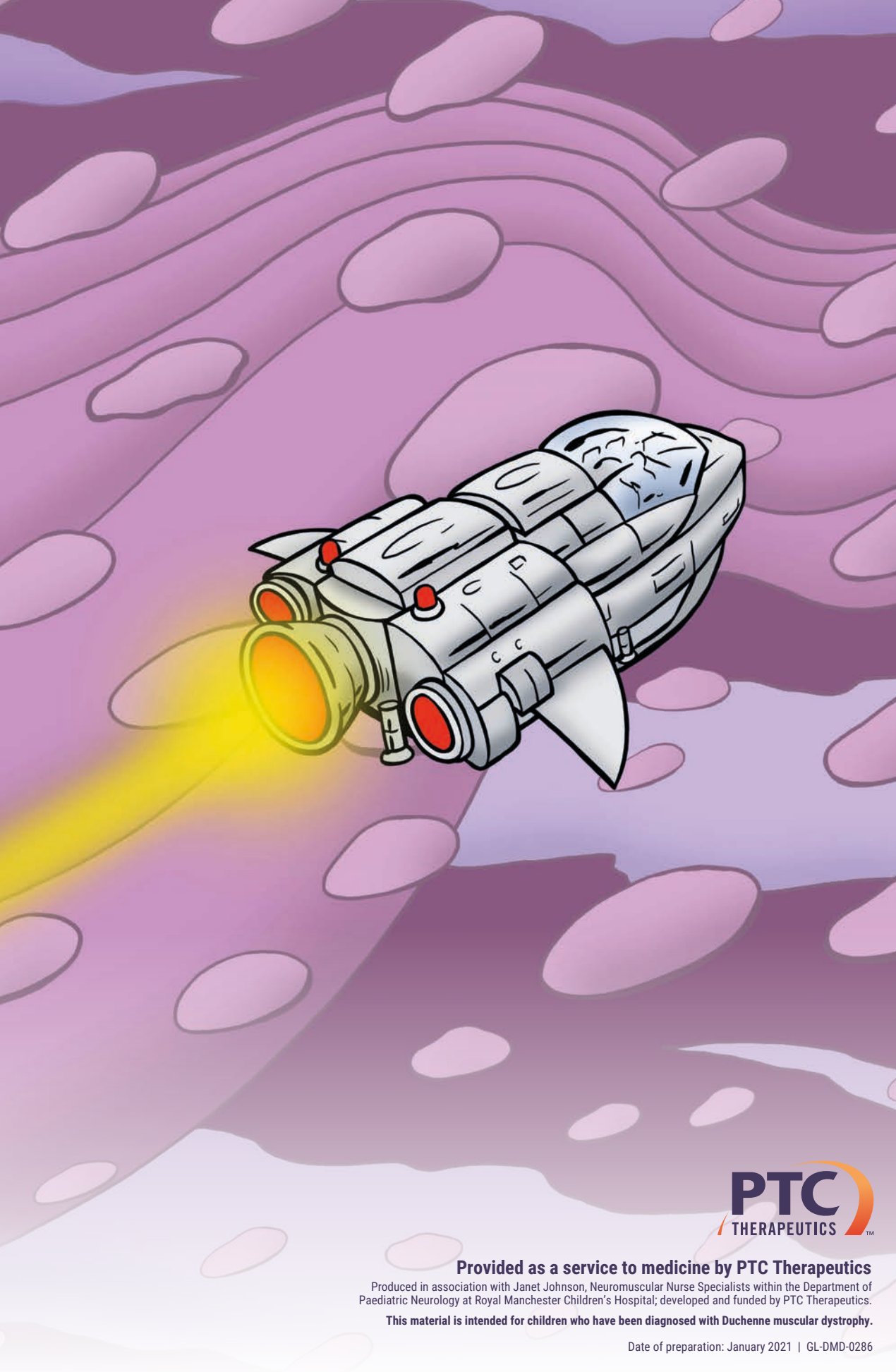


DUCHENNE WON'T STOP YOU FROM BEING ABLE TO DO LOTS OF THINGS.



BUT YOU JUST MIGHT HAVE TO DO THEM A BIT DIFFERENTLY.





Provided as a service to medicine by PTC Therapeutics

Produced in association with Janet Johnson, Neuromuscular Nurse Specialists within the Department of Paediatric Neurology at Royal Manchester Children's Hospital; developed and funded by PTC Therapeutics.

This material is intended for children who have been diagnosed with Duchenne muscular dystrophy.

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