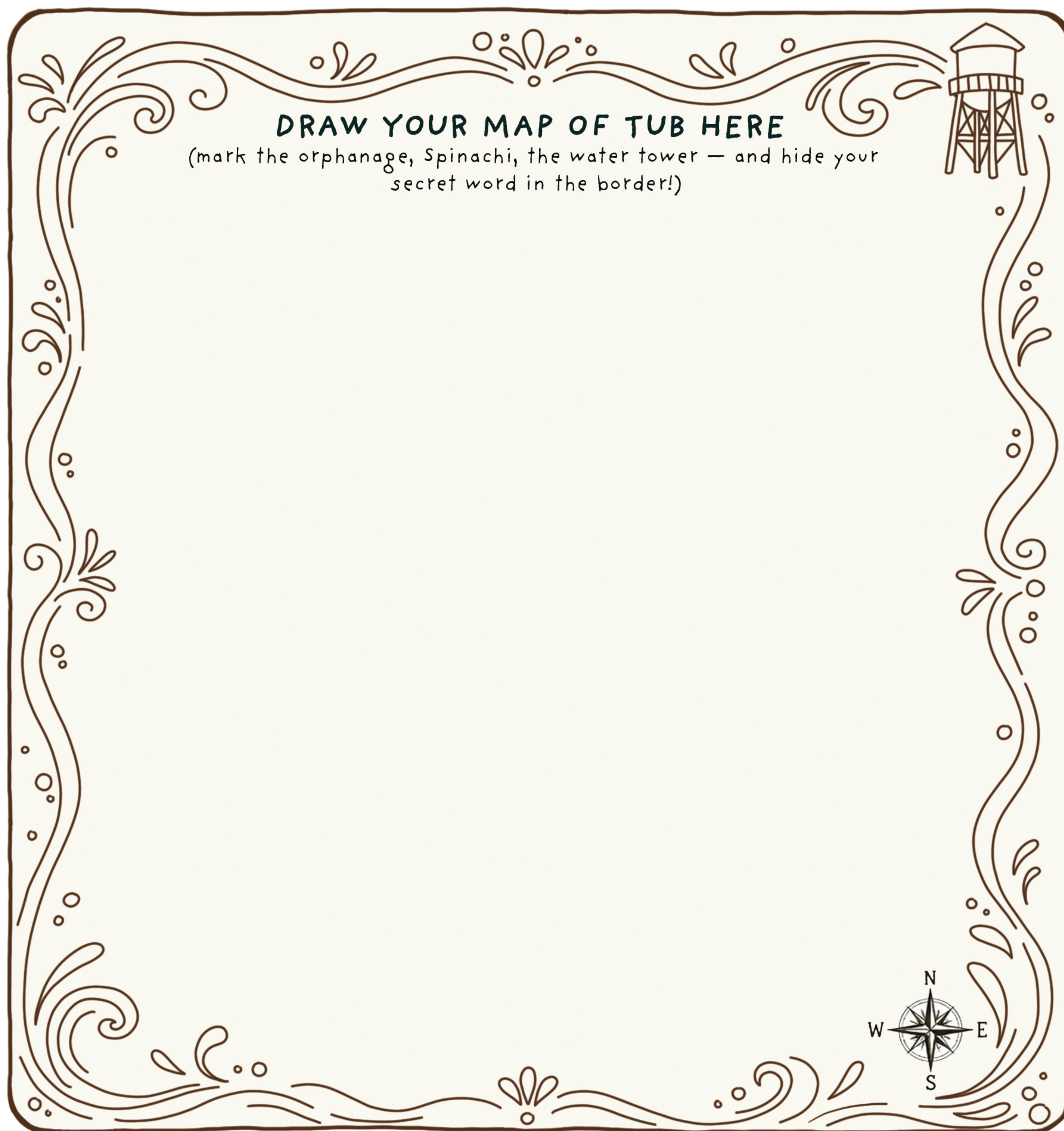


CRACK DOC BRUNNE'S MAP CODE

A Cartography & Real-Science Activity



Doc Brunne's maps of Spinachi are covered in gorgeous detail – and a secret. Tucked into the fancy swirls of every border, Doc hides his own name in tiny letters. Felix has to hunt for it before Doc will admit he's the mapmaker! Design your own map below, and hide a name or word somewhere in the border for a friend to find.



MY HIDDEN WORD

(write it small in your map border — don't tell!)

MAP SYMBOL KEY

-  = orphanage
-  = water tower
-  = brackish water
-  = Doc's house

THE REAL SCIENCE BEHIND THE NOCTILUNA

In the story, Doc explains that Noctiluna are bioluminescent creatures that only survive in brackish water – the mix of salt and fresh water found where oceans meet inland streams. That's Felix and Ninja's first big clue: when they find Noctiluna glowing in Doc's freshwater well, they know right away something has gone very wrong.

Think like a Naturalist: why might finding a brackish-water creature in fresh water be a clue?

