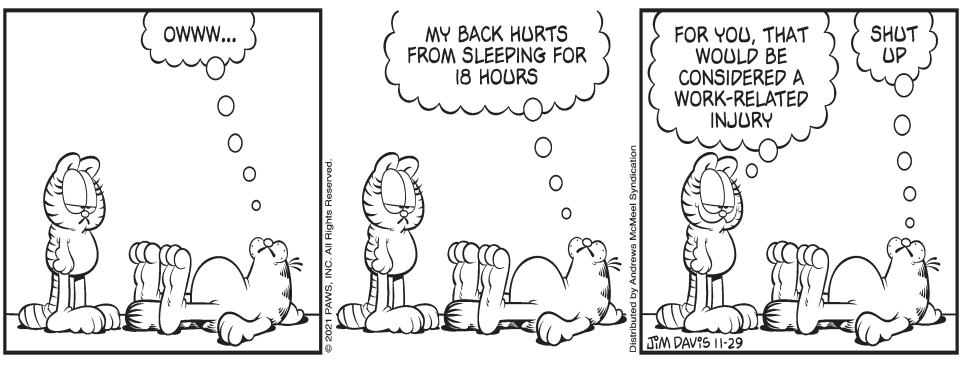
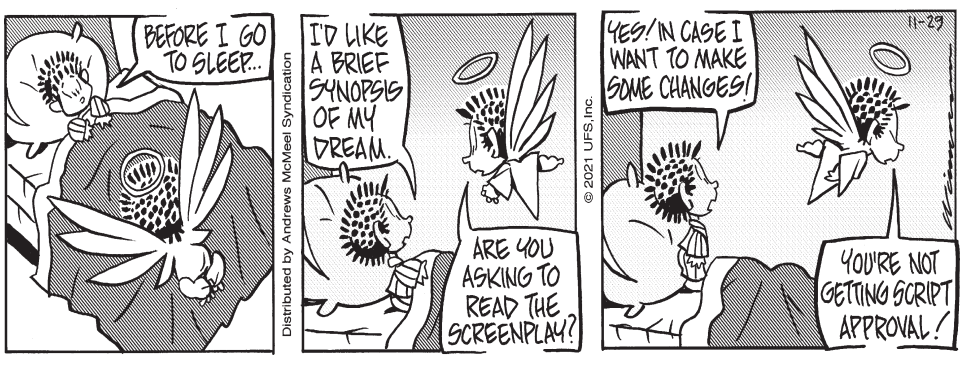
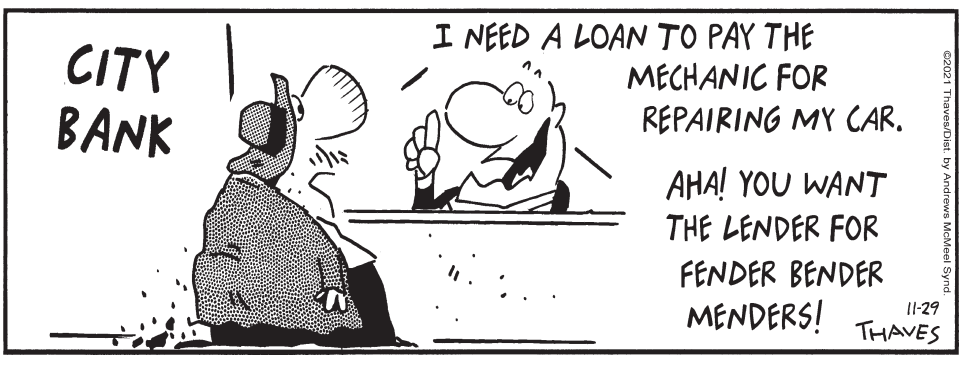
GARFIELD



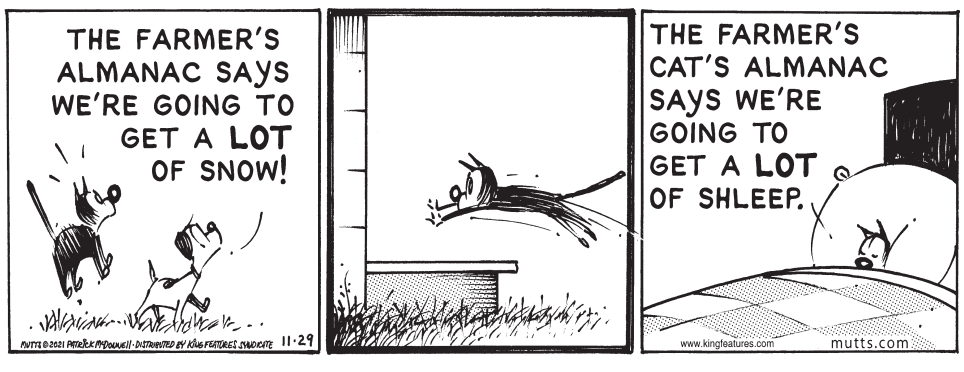
ROSE IS ROSE



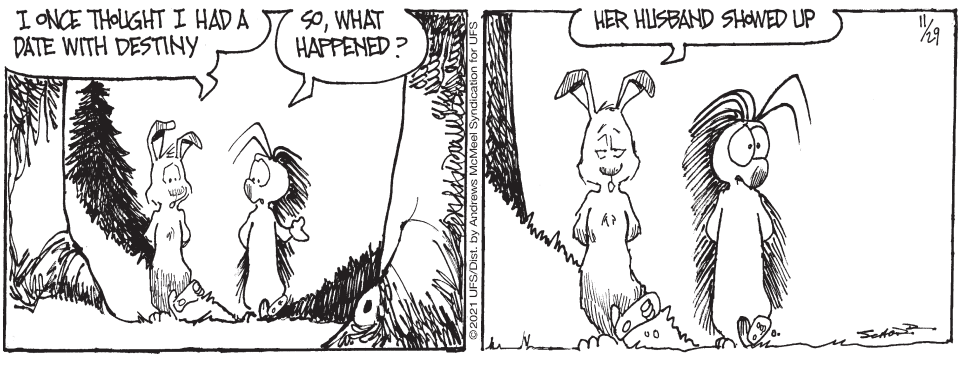
FRANK & ERNEST



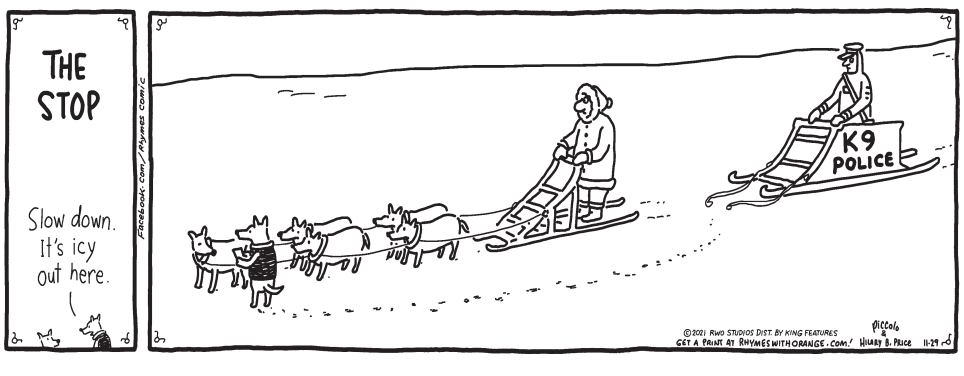
MUTTS



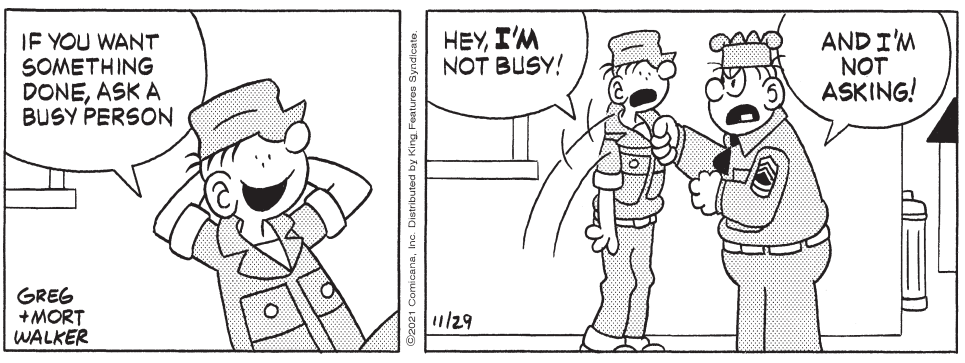
THE GRIZZWELLS



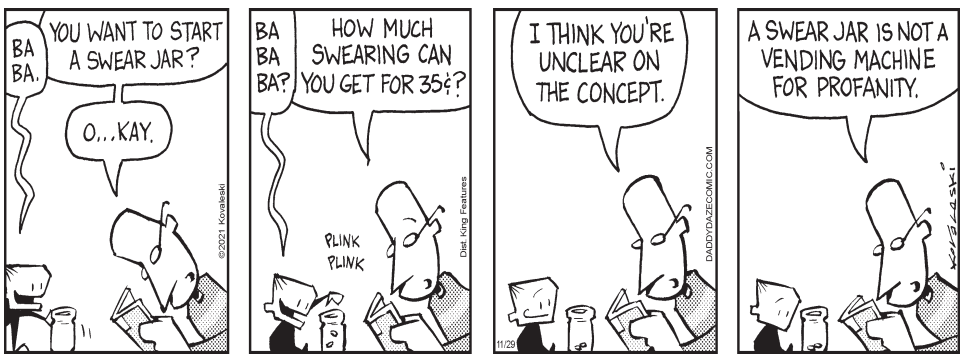
RHYMES WITH ORANGE



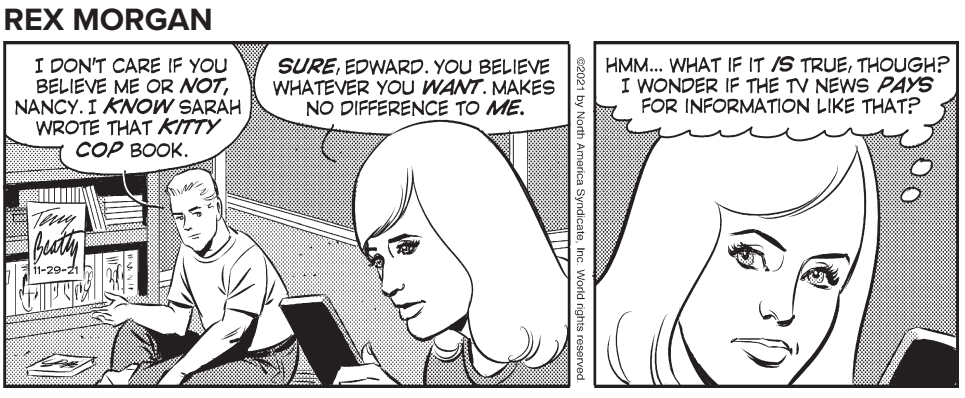
BEETLE BAILEY



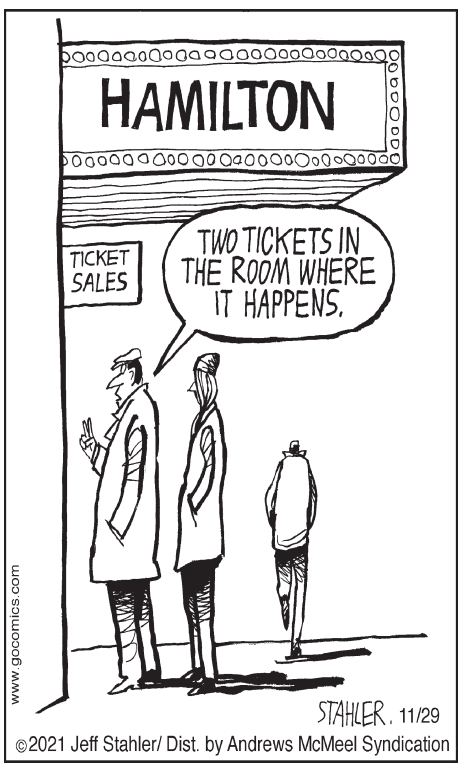
DADDY DAZE



REX MORGAN

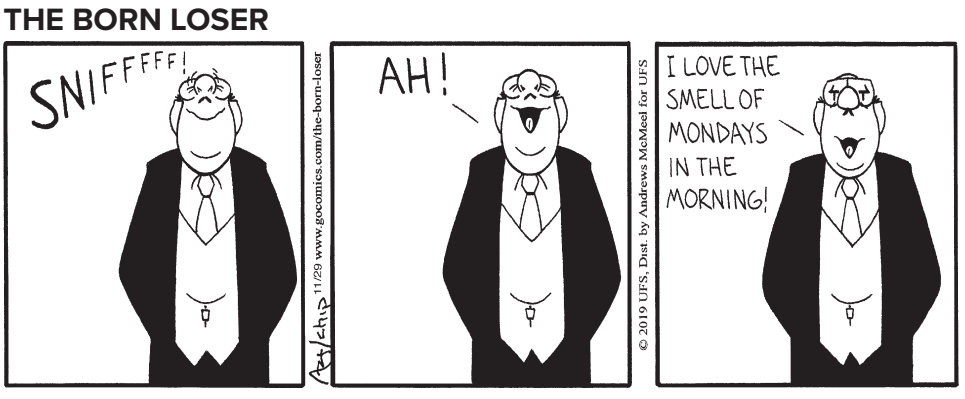


MODERATELY CONFUSED



REALITY CHECK

THE BORN LOSER



Shortcuts® by jeff harris

Going With The Flow Of Ocean Currents

This edition of Shortcuts is sponsored by Wave-id Bowie.

Ocean currents are huge streams of water that flow through the world's oceans like immense rivers. Ocean currents help to regulate our planet's climate by bringing warm water from the equator toward the poles, and cooler water from the poles toward the equator. At any given moment, about 10% of the water in the world's oceans is actively traveling through ocean currents.

This cartoon is just drifting through life.

Shipping companies use knowledge of ocean currents to help save on fuel.

What does the North Pacific gyre do with an abandoned ship? Take it out for a spin.

I deliver ch-ch-ch-changes.

Some marine animals use ocean currents to migrate thousands of kilometers in a short amount of time.

Catch My Drift

The water in deep ocean currents moves much slower than the water flowing in surface currents.

An "upwelling" is an area where colder, nutrient-rich water rises to the surface.

Surface currents are generated by wind and the uneven distribution of heat between the warmer areas near the equator and colder areas found near the poles.

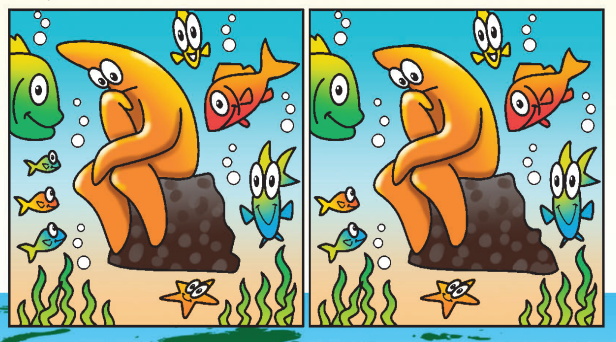
Running In Circles

A "gyre" is a large area of slowly spinning water that is created by the flows of several different oceanic currents along its edges. There are five major gyres in the world's oceans. They are located in the North Atlantic, South Atlantic, North Pacific, South Pacific and Indian oceans.

What is the ocean's favorite subject in school? Current events.

Deep Thoughts

Can you spot all six differences between these two scenes?



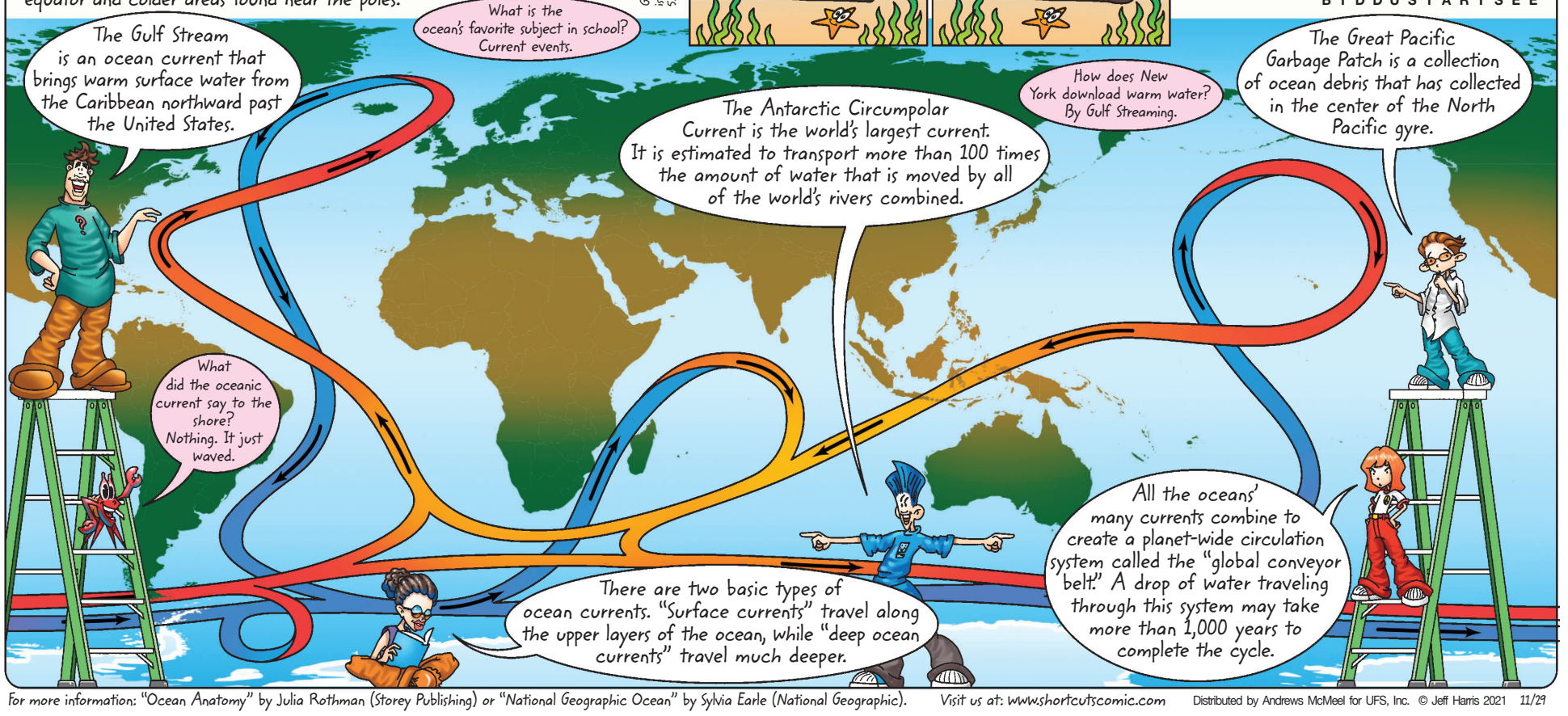
GAME ANSWERS: 1. Rock is different. 2. Starfish is moved. 3. Seaweed is missing. 4. Fish is missing. 5. Head is smaller. 6. Tail is different.

Word Search

Can you find the hidden words? Search carefully because some words are backward or diagonal.

UPWELLING, CURRENT, SURFACE, STREAM, OCEAN, WATER, POLAR, CYCLE, WARM, BELT, FLOW, COLD, WIND, GULF, DEEP, GYRE, BOB, SPIN

A	N	T	E	L	O	P	E	J	U	M	P	S
B	A	R	N	C	A	C	E	N	T	E	R	G
B	Y	E	E	E	A	S	Y	E	W	O	N	B
G	R	A	B	F	R	M	O	C	D	I	O	R
S	N	A	R	E	M	R	O	L	L	B	N	O
S	H	U	A	F	H	A	U	L	B	E	N	D
B	S	C	L	O	N	W	E	C	F	L	U	G
S	W	O	O	L	I	W	I	R	E	T	A	W
O	W	L	P	O	P	C	A	R	T	O	O	N
B	I	D	D	U	S	T	A	R	T	S	E	E



For more information: "Ocean Anatomy" by Julia Rothman (Storey Publishing) or "National Geographic Ocean" by Sylvia Earle (National Geographic). Visit us at: www.shortcutscomic.com

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