



Tangram

Special Activity

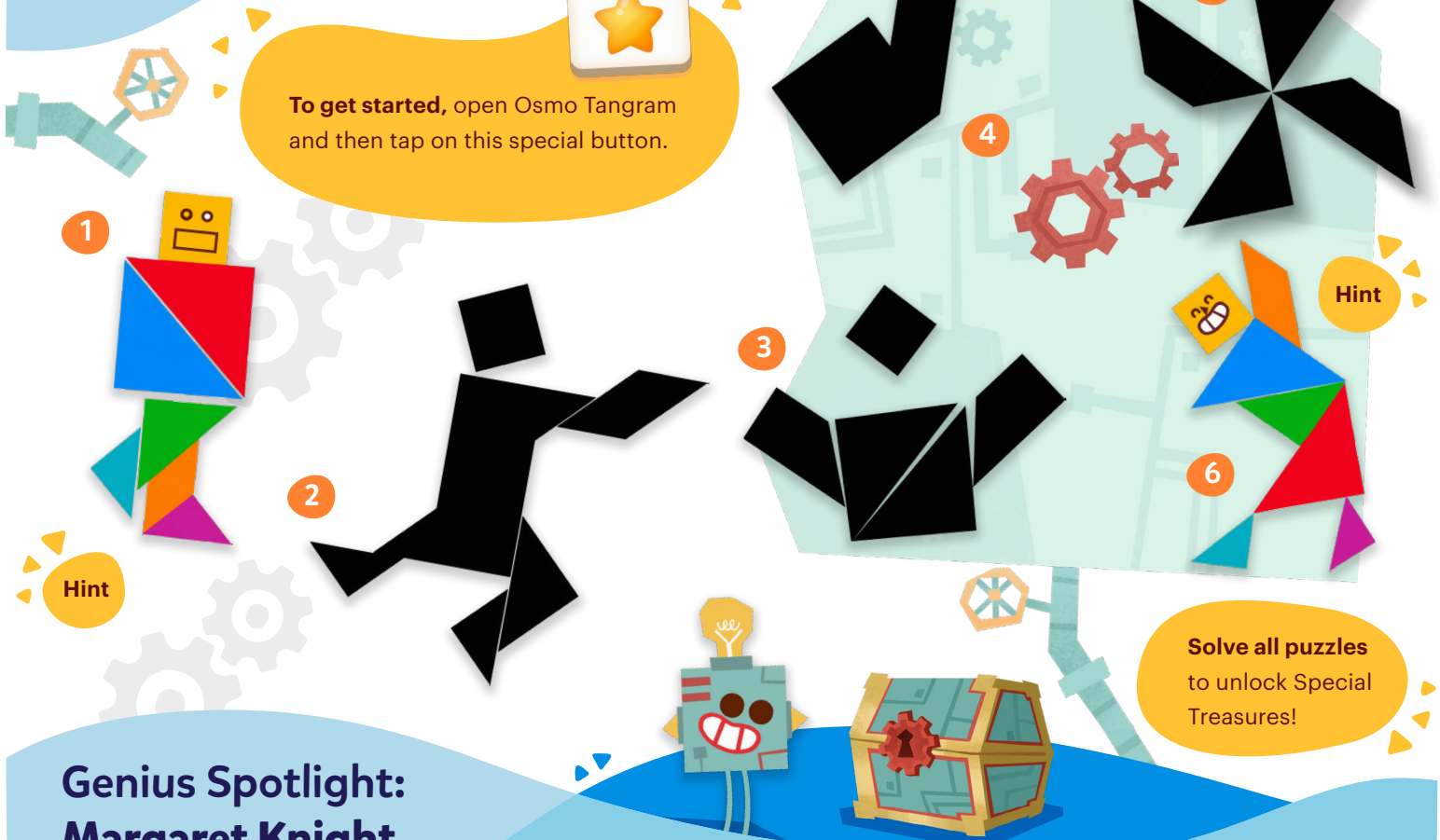
Osmo GENIUS Inventions MONTH

Build a Robot Party!

Solve six special Inventions-themed puzzles to activate a robot dance party.



To get started, open Osmo Tangram and then tap on this special button.



Genius Spotlight: Margaret Knight



Even items that seem simple are the product of someone's imagination and dedication.

Think of brown paper bags. They let you carry entire lunches or loads of groceries with one hand! Now imagine if these bags didn't exist. Imagine that instead, you had to carry things in big envelopes. They wouldn't hold half as much as the brown paper bag or be as easy to carry, would they?

Well that's exactly how people used to transport things! Until Margaret Knight came along.

In 1870, while working at a factory that manufactured these flimsy envelope "bags," Margaret came up with an idea for a better product. She built her own machine to fold and glue strong bags with flat, rectangular-shaped bottoms.

Keep Reading for a Fun Activity →

More about: Margaret Knight

It produced 1,000 bags during testing, so she decided to get a more durable iron version of it created.

But she ran into trouble. A man who worked at the factory making Margaret's iron machine stole her idea and filed the patent first.

When Margaret found out, she decided to take all of her notes and sketches to court to prove the idea was originally hers. And she won!

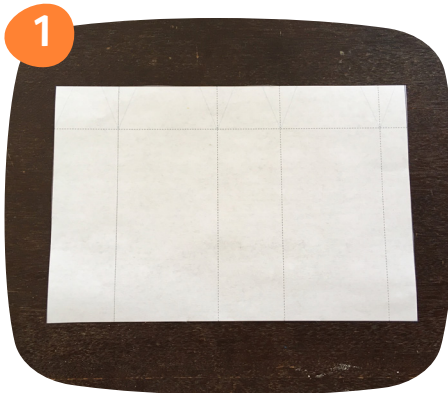
You can think of not only her creativity but her perseverance, too, every time you carry a brown paper bag from now on.



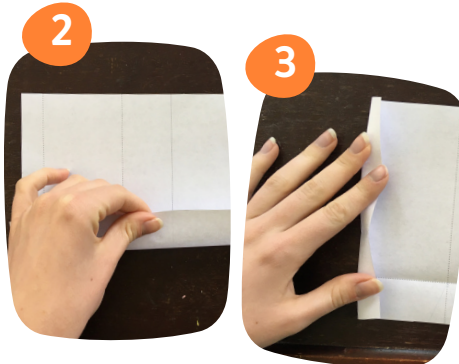
Margaret's Paper Bag Machine
July 11, 1871

How To Make Your Own Paper Bag!

With your parent's help, cut and fold a piece of paper into the shape outlined below. Secure it with glue or tape.



Print then cut out the **red rectangular** template (included on the next page).



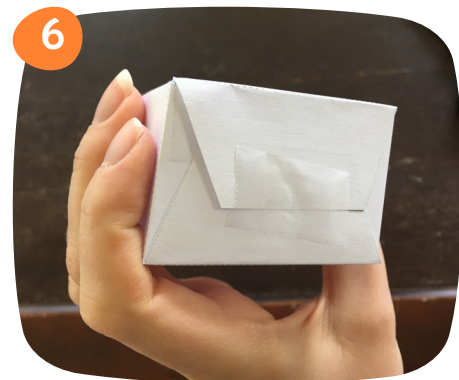
Fold on the **horizontal** dotted line, followed by the **vertical** dotted lines.



Cut along **blue guide lines** to create tabs for the bottom.



Fold along the vertical lines again, **taping** the edge closed. You can pinch along the fold to secure the tape.



To secure the bottom, tuck the smaller side tabs in and tape larger tabs together. Press the inside of the bottom against a hard surface, like a table, to secure the tape.



Tada! How much can your paper bag hold? Can you add anything to make it sturdier or easier to carry?

Template →

