Name: _____ Date: _____

A Flip Book Makes a Picture Move

Circle group

A flip book is a small pad of paper. It has a drawing on every page. The drawings are almost the same. In each one, something has moved a little. When you flip the pages fast, the picture seems to move.

Say you want to draw a bouncing ball. On the first page, the ball is high up. On the next page, it is a little lower. Page by page, the ball gets close to the ground. Then you draw it going back up.

Your eyes and brain are the secret. Each picture stays in your mind for a moment. When the next one comes, your brain joins them. You see one picture that moves.

Cartoons work this way too. Artists make many drawings and show them fast.

Questions

1. What is on every page of a flip book?

_____

_____

2. How are the drawings different?

_____

_____

3. What do you do to make the picture move?

_____

_____

4. In the ball example, what is on the first page?

_____

_____

5. Why does the picture seem to move?

_____

_____

6. How is a cartoon like a flip book?

_____

_____

Words to know

flip: to turn over quickly
drawing: a picture made with a pencil or pen
brain: the part of your body that thinks
cartoons: animated pictures that tell a story or joke

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

A Flip Book Makes a Picture Move

Triangle group

A flip book is a small pad of paper with a drawing on every page. The drawings are almost the same. In each one, something has moved just a little bit. When you flip the pages fast, the picture seems to move.

Suppose you want to draw a ball that bounces. On the first page, you draw the ball high up. On the next page, you draw it a little lower. Page after page, the ball gets closer to the ground. Then you draw it going back up.

Your eyes and brain are the secret. Each picture stays in your mind for a moment after it is gone. When the next one appears, your brain joins them together. It sees one picture that moves, not many still ones.

Movie cartoons work in a similar way. Artists make many drawings, and they show them one after another very quickly.

Questions

1. What is on every page of a flip book?

_____

_____

2. How are the drawings in a flip book different from each other?

_____

_____

3. What do you do to make the picture seem to move?

_____

_____

4. In the ball example, what do you draw on the first page?

_____

_____

5. Why does the picture look like it moves?

_____

_____

6. How is a cartoon like a flip book?

_____

_____

Words to know

flip: to turn over quickly
drawing: a picture made with a pencil or pen
bounces: jumps back up after hitting something
brain: the part of your body that thinks
cartoons: animated pictures that tell a story or joke

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

A Flip Book Makes a Picture Move

Square group

A flip book is a small pad of paper with a drawing on each page. The drawings are nearly identical, but in every one, something has shifted slightly. When you flip through the pages rapidly, the picture appears to move.

Imagine that you want to draw a ball that bounces. On the first page, you draw the ball high in the air. On the next page, you draw it a little lower. Page after page, the ball drops closer to the ground, and then you draw it rising back up again.

Your eyes and your brain are the secret. Each picture lingers in your mind for a moment after it disappears. When the next one appears, your brain links the two together, so you see one moving picture rather than many still ones.

Cartoons work in a similar way. Artists create a great many drawings and then show them one after another at high speed.

Questions

1. What appears on each page of a flip book?

_____

_____

2. How do the drawings differ from one another?

_____

_____

3. What must you do to make the picture appear to move?

_____

_____

4. In the ball example, what is drawn on the first page?

_____

_____

5. Why does the picture appear to move?

_____

_____

6. In what way is a cartoon similar to a flip book?

_____

_____

Words to know

flip: to turn over quickly
drawing: a picture made with a pencil or pen
bounces: jumps back up after hitting something
brain: the part of your body that thinks
cartoons: animated pictures that tell a story or joke

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

For the teacher: A Flip Book Makes a Picture Move

Each student sheet carries a shape, not a level. The same topic and facts, written three ways.

Circle: A Flip Book Makes a Picture Move

Easier · 128 words · Flesch-Kincaid grade 1.4

1. A drawing.
2. Something has moved a little.
3. Flip the pages fast.
4. The ball high up.
5. Your brain joins each picture to the next one.
6. Both show many drawings one after another, fast.

Triangle: A Flip Book Makes a Picture Move

This passage · 148 words · Flesch-Kincaid grade 3.1

1. A drawing.
2. Something has moved just a little bit.
3. Flip the pages fast.
4. The ball high up.
5. Your brain joins each picture to the next one that appears.
6. Both show many drawings one after another very quickly.

Square: A Flip Book Makes a Picture Move

Harder · 155 words · Flesch-Kincaid grade 5.1

1. A drawing.
2. In each one, something has shifted slightly.
3. Flip through the pages rapidly.
4. The ball high in the air.
5. Your brain links each picture with the next one that appears.
6. Both show many drawings one after another at high speed.