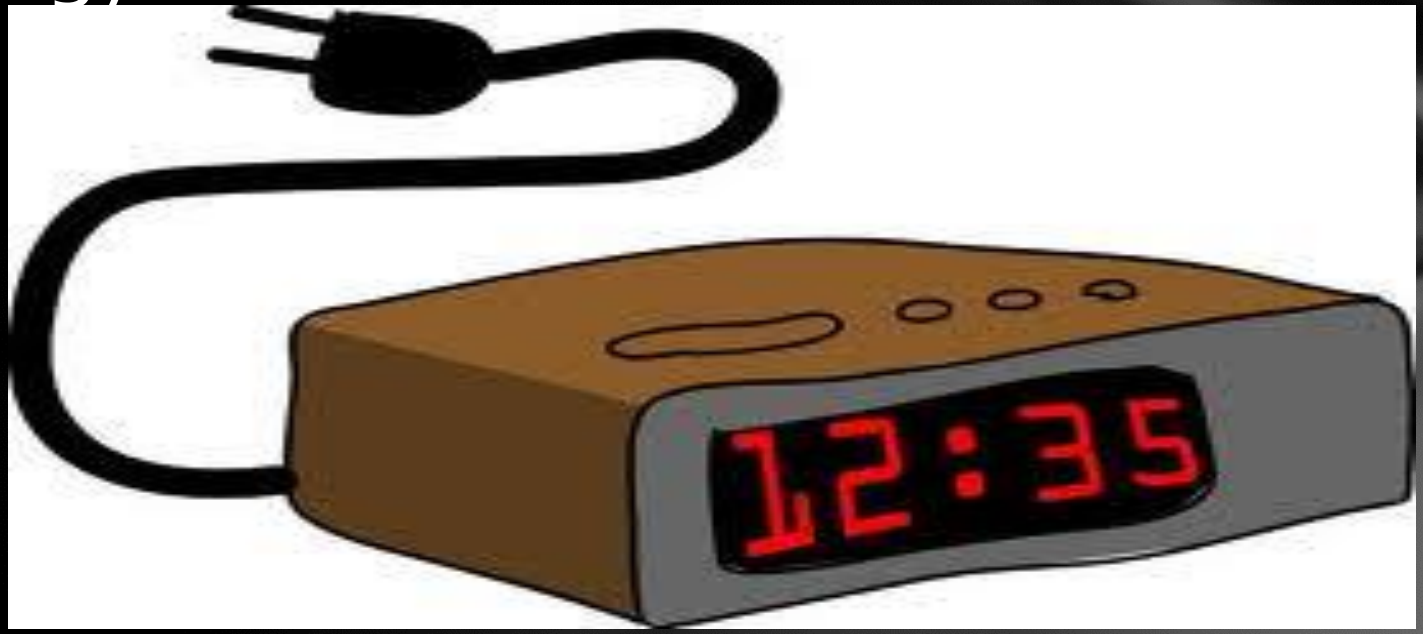
Energy Transformations

1. *Use this presentation to answer the questions on your Energy Transformations worksheet.*
2. *Discuss your answer choices with your shoulder partner and then record your answer on your worksheet.*
3. *After you have selected your answers, use the Reflection boxes to discuss what you learned.*

1. When an alarm clock that is plugged into the wall goes off to wake you up, what energy transformation occurs?



A. electrical → heat → sound
B. electrical → light→ sound
C. electrical → chemical → light
D. chemical → electrical → mechanical

2. You unplug your cell phone after it has been charged and all of the sudden, it starts to ring. What energy transformation occurs?

A. electrical → heat → sound
B. electrical → sound → light
C. chemical → mechanical → light
D. chemical → electrical → sound

3. You and your friend are roasting marshmallows to make S'mores and eating them, which is showing what energy transformation?

A. electrical→ heat → light

B. sound→ mechanical→ chemical

C. light→ heat→ kinetic

D. heat→ chemical→ sound

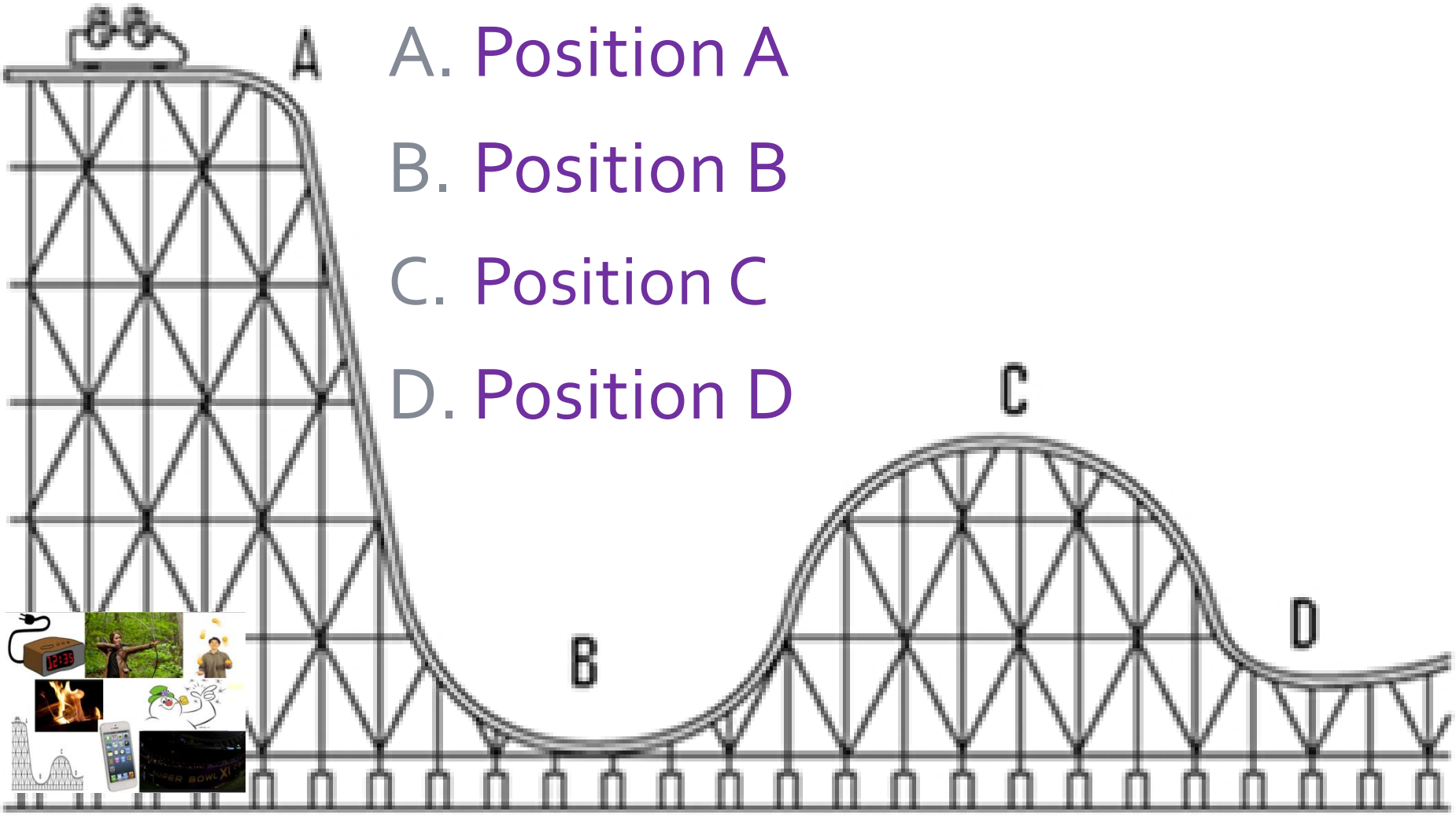
4. Which position on the roller coaster has the most potential energy?

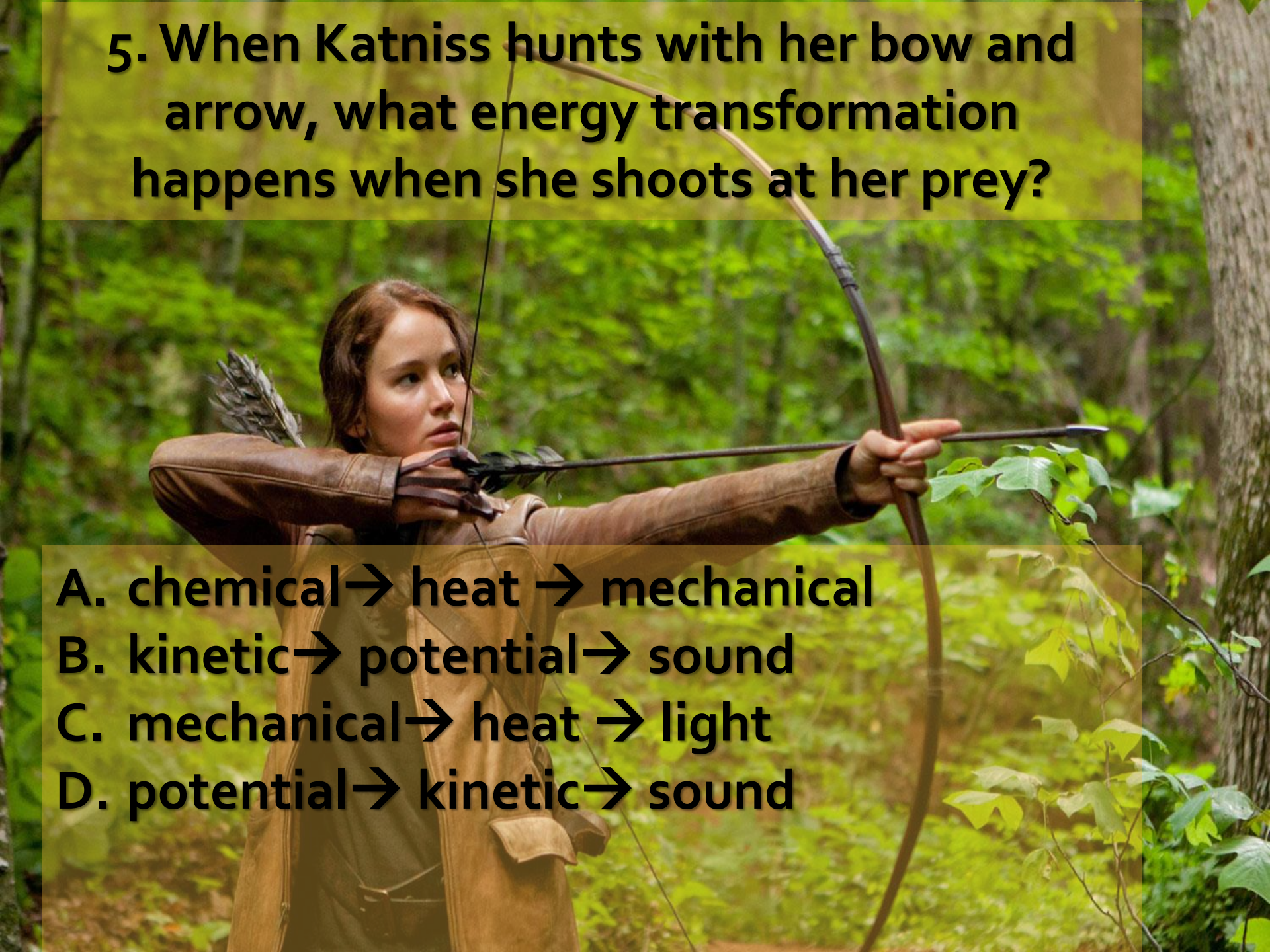
A. Position A

B. Position B

C. Position C

D. Position D





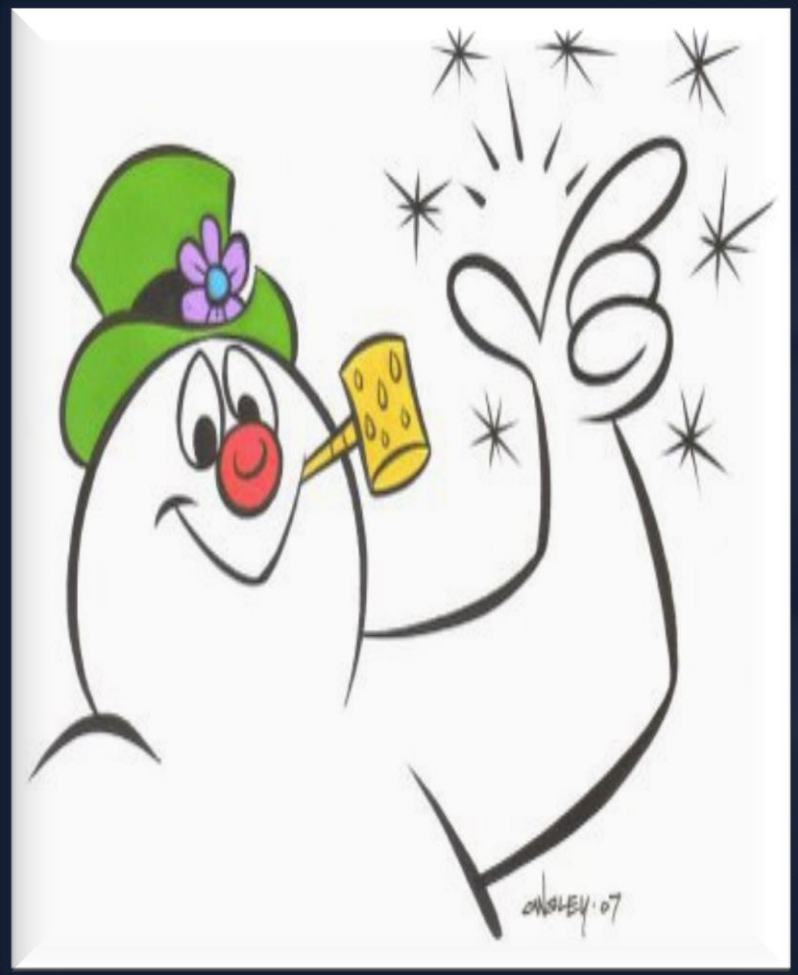
5. When Katniss hunts with her bow and arrow, what energy transformation happens when she shoots at her prey?

A. chemical→ heat → mechanical
B. kinetic→ potential→ sound
C. mechanical→ heat → light
D. potential→ kinetic→ sound

6. At which position does the ball have the most potential energy?

A. When the boy prepares to throw it
B. When the ball rises
C. When the ball switches from rising to falling
D. When the ball falls back to the boys hand

7. When Frosty begins to melt, the following energy transformation occurs:



A. chemical→ heat → solar

B. solar→ heat→ kinetic

C. light→ chemical→ heat

D. potential→ sound→ heat

8. When the power went out at the Super Bowl last year, what happened?

A. The electricity was destroyed and went away
B. The electricity was transformed to potential energy and then back to electric energy
C. The electricity was destroyed and had to be created again

Energy Transformation Activity Answers

1. B
2. B
3. D
4. A
5. D
6. C
7. B

After you review your answer choices, go back and complete the reflection part of your worksheet. You may discuss your answers and the reflection with your shoulder partner. ☺