# Cartoon science

## Teacher instructions

1. Show the roadrunner video clip and ask students to think about what science is involved

<https://www.youtube.com/watch?v=J1LV6Fsd2HM>

1. Introduce the storyboard. Show the short clip and ask how the storyboard represents this.

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| --- | --- | --- |
| 1. Wile E Coyote sets mouse trap with bird seed.
 | 1. Wile E Coyote hides
 | 1. Trap goes off, Wile E Coyote goes to investigate
 |
| 1. Trap has caught a large, angry animal
 | 1. Animal takes revenge on Wile E Coyote
 | 1. Wile E Coyote ends up caught in own trap
 |
| Wile E Coyote’s mistake - didn’t realise that traps may catch unintended prey |

1. More storyboard practice (if needed) - otherwise go straight to task.

|  |  |  |
| --- | --- | --- |
| 1. Wile E Coyote sets himself in a spring against a rock
 | 1. Road runner goes past
 | 1. Wile E Coyote releases spring
 |
| 1. Wile E Coyote caught inside spring
 | 1. Spring and Wile E Coyote go over cliff and drag rock after
 | 1. Wile E Coyote hits ground at bottom and then hit by falling rock
 |
| Wile E Coyote’s mistake - didn’t realise that he needs to stay in contact with the front edge if the force from the spring is to move him forward.  |

1. Explain the task:
Once again Wile E Coyote has failed to catch the Road Runner, this time because he didn’t understand the most important thing to know about solids, liquids and gases. Write a story board for a short segment and explain what science he didn’t know.
2. Getting started discuss the planning questions
* What do you think is the most important thing to know about solids, liquids and gases?
* What mistake might Wile E Coyote make about them?
* How might Wile E Coyote try to use these to catch the road runner?
* What will happen because he doesn’t understand?
1. Point out that for satisfactory the key feature needs to be part of the story

|  |  |  |
| --- | --- | --- |
| Towards satisfactory | Satisfactory | Beyond satisfactory |
| Describes key features of solids, liquids and gasesWrites story involving solids, liquids and/or gases | Explains how story involves a key feature of solids, liquids and/or gases | Explains mistaken and correct thinking around key feature matches story line |

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## Background

Here is a story line from the cartoon and a description of the problem with Wile E Coyote’s science thinking.

|  |  |  |
| --- | --- | --- |
| 1. Wile E Coyote sets a trap with bird seed.
 | 1. Wile E Coyote hides
 | 1. Trap goes off, Wile E Coyote goes to investigate
 |
| 1. Trap has caught a large, angry animal
 | 1. Animal takes revenge on Wile E Coyote
 | 1. Wile E Coyote ends up caught in own trap
 |
| Wile E Coyote’s mistake - didn’t realise that traps may catch unintended prey |

## Your task

Once again Wile E Coyote has failed to catch the Road Runner, this time because he didn’t understand the most important thing to know about solids, liquids and gases. Write a story board for a short segment and explain what science he didn’t know.

## Getting started

What do you think is the most important thing to know about solids, liquids and gases?

What mistake might Wile E Coyote make about them?

How might Wile E Coyote try to use these to catch the road runner?

What will happen because he doesn’t understand?

|  |  |  |
| --- | --- | --- |
| Towards satisfactory | Satisfactory | Beyond satisfactory |
| Describes key features of solids, liquids and gasesWrites story involving solids, liquids and/or gases | Explains how story involves a key feature of solids, liquids and/or gases | Explains mistaken and correct thinking around key feature in story line |

Record your story line here:

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
| Wile E Coyote’s mistake: |