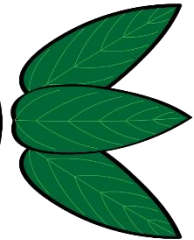
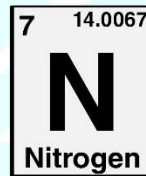
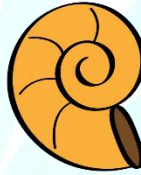
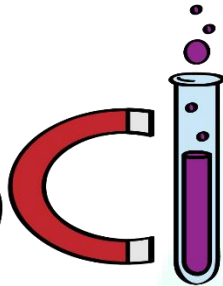
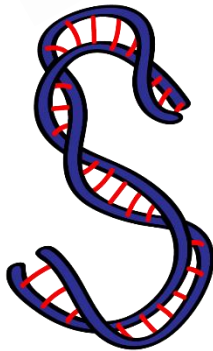




ASPIRE
INTERNATIONAL SCHOOL



Science Department

2023/2024

Year 7

Term 1 , Week 9

ASPIRE

INTERNATIONAL SCHOOL

Name:

Class:

Worksheet: 3.1A

Going to the Moon

In this activity you will make predictions using what you know about gravity, weight and mass.

Fact

The strength of gravity on the Moon is less than the strength of gravity on Earth.

Use this fact to decide whether each of these statements is correct or incorrect.

If a statement is correct, put a tick (✓) after it.

If a statement is incorrect, put a cross (✗) after it.

Statements

- 1 If you go to the Moon, your weight will be less than on Earth.
- 2 If you go to the Moon, your mass will be less than on Earth.
- 3 The same objects will feel heavier on the Moon than on Earth.
- 4 You could throw a ball higher on the Moon than on Earth.
- 5 Your rocket will need more force to take off from the Moon than from Earth.

2 Here are some energy stores or transfers, but the letters in the words have been scram

What are the words?

a ERLMATH _____

b CHILEMAC _____

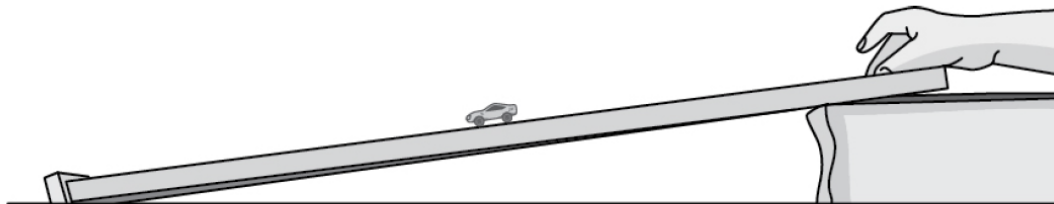
c CATLIES _____

d CITEINK _____

Worksheet: 3.6A

Getting faster

Marcus makes a ramp using a piece of wood and some books. He puts a toy car at the top of the ramp and releases it.



Complete these sentences using energy stores or transfers.

- 1 When Marcus lifts the toy car up onto the ramp, he gives the car _____ energy.
- 2 As the car goes down the ramp, _____ energy gets changed to _____ energy.
- 3 When the car gets to the bottom of the ramp, the car has the most _____ energy.

Worksheet: 3.4B

What are tidal forces?

In this activity you will think about tidal forces and the effects of tidal forces.

1 a Name two objects that cause tidal forces on Earth.

1 _____

2 _____

b Describe two effects of tidal forces on Earth.

1 _____

2 _____

c Could the Earth cause tidal forces on the Moon?

Circle one answer.

yes

no

Explain your answer.
