

Motion and forces

1- Define friction.

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2 Define motion.

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3 Write (T) for true statements and (F) for false statements.

a- The reference point is the starting point we choose to describe the location (position) of an object. ☐

b- To describe an object's motion you don't have to know where the object is. ☐

c- We always use the same unit to measure speed. ☐

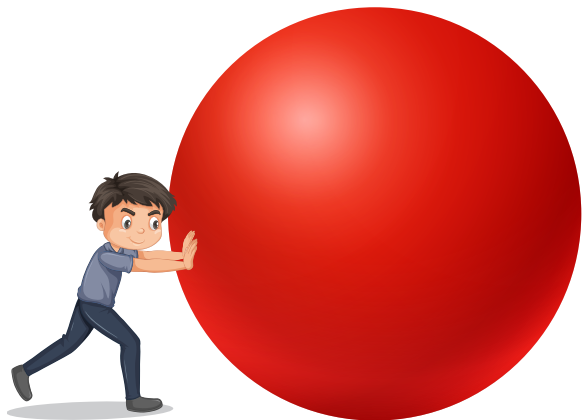
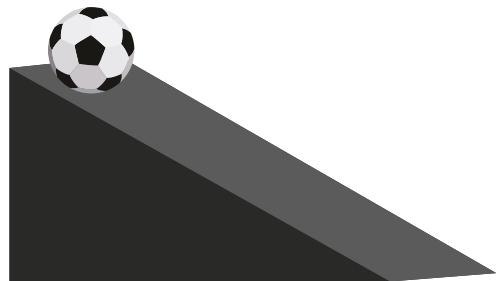
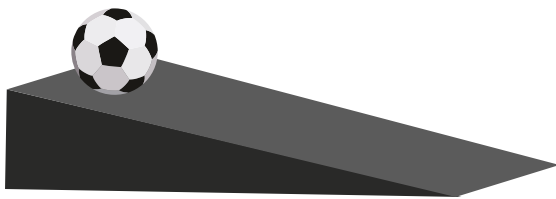
d- A force is a pull or push. ☐

e- The strength of a force is measured in a unit called "Newton" (N) . ☐

f- We use the winter scale to measure force. ☐

g- The smoother the surface, the faster an object would move across it. ☐

Circle the ball that moves faster.



Is it easier to push or pull a ball uphill? Why?

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Matter and physical properties

1- Define matter.

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2 Define mass.

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3 Define weight.

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4 Answer true or false.

- a- All objects are attracted toward the center of the planet by the force of the earth's gravity.
- b- Weight is measured by a summer scale.
- c- Weight is measured in a unit called Newton (N).
- d- If you have measured the mass and the volume of an object, you can calculate its density.

1- A snack mixture of raisins, walnuts, and peanuts cannot be separated.

a- True

b- False

2

Which of the following are mixtures?

a- Fruit salad

c- Salt

b- Flour

d- Wood

3

Which of the following is not a mixture?

a- Flour and sugar

c- Atmosphere

b- Iron filings and charcoal

d- Salt

4

How can we separate a mixture of iron filings and sand?

a- Sifting

c- Filtering

b- Magnet

d- Burning

5

Select two options that are true about mixtures.

a- Two or more substances mixed together but not chemically combined.

b- Most substances will explode when mixed.

c- Substances in a mixture maintain their own properties.

d- Only liquids can be combined to form mixtures.

Chemical and physical changes of matter

Classify and write (P) for physical changes and (C) for chemical changes.

1 Butter melting.

2 A glass cracking when heated.

3 Water exposed to extreme cold becomes ice.

4 Melting a lead bar.

5 Burning sugar for caramel.

6 Dissolving sugar in water.

7 Tearing a piece of paper.

8 A metal spoon rusting.

9 Frying fish.

10 What are chemical and physical changes?

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