# God is Protector Teacher's Topic Guide Year 3

**Topic: Weather** Duration: 3 weeks

### **Spiritual Awareness**

God has power over creation

God shows His love to us in providing the things we need. Rain and sunshine are essential to life. The world's climate was once perfect. However, with the Fall came a change in those perfect climatic conditions. Extremes in climate, and the problems caused by these extremes were not part of the original creation.

In the Garden of Eden there were no extreme weather conditions. The earth was a perfect temperature for maintaining life, and dew fell each morning to water the earth. With the Fall of mankind, the weather conditions changed, and sin eventually brought about God's judgement displayed in the Great Flood.

Despite extreme weather conditions we now experience on the planet, God is still in control. He is our shelter and protector. We must put our trust in Him and not be afraid.

## Bible stories and passages: Protection from extreme weather

1 Kings 17:2-6 God protected Elijah in time of drought. He was fed by ravens.

Genesis 6-8 God protected Noah and his family during the Flood.

Genesis 37-47 God protected Joseph and his family through drought.

Mark 4 Jesus protected the disciples during the storm.

Matthew 7:24-27 The wise man was protected from the storm because he built his house on the rock.

Acts 27 God protected Paul in the storm.

### Verses about protection from harsh weather and storms of life:

Psalm 91:1-5 We live within the shadow of the Almighty, sheltered by the God who is above all gods. This I declare, that he alone is my refuge, my place of safety; he is my God, and I am trusting him.

Isaiah 4:6 There will be a booth for shade by day from the heat, and for a refuge and a shelter from the storm and rain.

Nahum 1:7 The Lord is good, a stronghold in the day of trouble; he knows those who take refuge in him.

Isaiah 43:5 Fear not for I am with you.

Psalm 121:5-6 You are my shade; protection from heat

### Verses about God's provision through weather:

Deuteronomy 11:13 I will send rain on your land if you love and serve me with all your heart. Psalm 104:13 From the sky you send rain on the hills, and the earth is filled with your blessing. (GNB)

Psalm 104:19 You created the moon to mark the months; the sun knows the time to set.

### **Key Questions**

How does God provide for us through weather and climate?

Were floods, droughts and hurricanes a part of God's original perfect creation?

What was the weather like in the Garden of Eden?

Why has the weather changed?

How can we protect ourselves in bad weather?

Who is afraid of thunder and lightning? Pets?

What are the dangers of being out in an electrical storm?

How do we prepare for cyclones?

### Outcomes

### Knowledge

- Identify suitable clothing to wear in different weather conditions
- explain how weather affects man's lifestyle
- study the weather patterns of the local environment
- study the weather patterns of our country
- look at ways of protecting ourselves from the elements

### Skills

- classify clothes, toys, games etc. used in different seasons
- problem solving: how to protect ourselves in extreme weather

### Values

- appreciate the different seasons and the provision of sun and rain
- show wisdom in preparing for seasonal weather conditions

### **Activities**

- Discuss changes in weather throughout the year: wettest, driest, hottest, coldest
- Make a graph or chart to show times of high/low rainfall.
- Observe the ways in which seasonal changes affect plant and animal life.
- Observe times of planting and harvesting.
- Make a chart showing how we can be wise in preparing for changes in weather, e.g. raincoats, sun hats
- Create a collage of weather pictures.
- Discuss dependence of living things upon rain and sun.
- Discuss ways of protecting ourselves in extreme weather, e.g. hats, sunscreen, staying
  indoors during electrical storms; our parents protect us so children need to obey parents in
  order to be protected

### Assessment

Create a chart called "Extreme weather". Divide the page into four and show how to protect ourselves in these extreme weather conditions: Hot sun; strong wind; a thunder and lightning storm; ice and snow. Use words and pictures.

What have I learned from the study of weather...

- about God and the Bible?
- about doing what God wants me to do?

### **Additional Teaching Notes:**

### Weather and the water cycle

Lightning, thunder and rainstorms were a mystery to people in ancient times. In Rome, Egypt and India people thought that lightning bolts were missiles thrown by the gods. Then Chinese thought that lightning was a goddess. Her job was to flash light here and there to help the thunder god find the people he was angry with.

Since rain is so necessary to our life on earth, ancient people wondered what caused it. Some thought that sprinkling water on the ground would help cause rain. Others tried to stab holes in the clouds with spears. The American Indians performed rain dances in the hope of making it rain. Maybe the most unusual idea is found in one of the holy books of the Hindu religion, the 'Vedas'. It says to tie up a frog with its mouth propped open. If you tie him to the right tree and say the right words, rain will fall!

The Bible talks about rain, lightning, thunder and storms. But it does not include any of the superstitious ideas found in other books written long ago. These books taught that the forces of nature were living beings who often did crazy things. The Bible on the other hand teaches that the earth's weather follows rules and cycles. Not Genesis 8:22.

"As long as the earth continues, there will be planting and harvest, cold and heat, summer and winter, day and night."

Job 28:26 says, "God made rules for the rain. And He set a path for the thunderstorm to follow." God told Jeremiah, "Day and night will always come at the right time," (Jeremiah 33:20).

Later on in history scientists began to discover the "rules for the rain" that Job talked about. We now have weathermen who know about the path of a thunder storm. Of course, all along the Bible had mentioned these laws of nature that we are still discovering. All along, the Scripture reminded us that the laws of nature are really the laws of God.

### Where does the rain come from?

Rainfall is a process called the water cycle. Here's how the water cycle works: The sun evaporates water from the ocean. The water vapour rises and becomes clouds. This water in the clouds falls back to earth as rain, collects in streams and rivers, and makes its way back to the ocean. That process repeats itself again and again.

There was a scientist called Galileo who discovered that water follows such a cycle in 1630. But amazingly, the Scriptures mentioned this fact centuries earlier. Amos 9:6 says that God "calls for the waters of the sea. He pours them out on land."

Long before Galileo discovered it, the Bible told us that the water from the sea ends up falling on the land. Maybe it was because believed in the God of the Bible, that God showed Him truths about the creation.

Another verse that talks about the water cycle is Isaiah 55:10. It shows us that rain and snow return to the sky after watering the earth. (This is evaporation.)

"Rain and snow fall from the sky. They don't return without watering the ground."

# Values education Year 3

# **God is Protector**

# Security

God is a loving Father who can be trusted. We can trust Him to protect us. We can feel secure in His care.

# Security is...

- · having no fear
- feeling safe
- being sure that God is in charge of my life
- giving my worries to God

### I feel safe and secure because:

- my family cares for me
- God cares for me

### **Activities**

- 1. Why do you think a baby feels secure?
- 2. What makes you feel safe and secure?
- 3. Two children can demonstrate a "trust walk". In this activity one student puts all their trust in the other student. The leader will lead the other on a walk while their eyes are closed. The leader will make sure the partner does not walk into things or trip over things.
- 4. After the trust walk, ask whether the person felt safe and secure on the trust walk. Why? They did not need to be afraid because the leader could be trusted to keep them safe and secure.

### **Questions:**

Who can we trust?

How do these people show their love and care for us?

### What does the Bible say about security?

Psalm 91 He who dwells in the shelter of the Most High will rest in the shadow of the Almighty.

Psalm 23 The Lord is my shepherd.

1 Peter 5:7 Casting all your cares on Him, for He cares for you.

Matthew 6:25-31 Do not worry. God cares for the birds and much more for you.

# Practical Science: Weather and seasons What Absorbs More Heat?

http://www.sciencekids.co.nz/experiments/lightcolorheat.html

When you're out in the sun on a hot summer day it pays to wear some light colored clothes, but why is that? Experiment with light, color, heat and some water to find out.

# What you'll need:

- 2 identical drinking glasses or jars
- Water
- Thermometer
- 2 elastic bands or some sticky tape
- White paper
- Black paper

### Instructions:

- 1. Wrap the white paper around one of the glasses using an elastic band or sticky tape to hold it on.
- 2. Do the same with the black paper and the other glass.
- 3. Fill the glasses with the exact same amount of water.
- 4. Leave the glasses out in the sun for a couple of hours before returning to measure the temperature of the water in each.

# What's happening?

Dark surfaces such as the black paper, absorb more light and heat than the lighter ones such as the white paper. After measuring the temperatures of the water, the glass with the black paper around it should be hotter than the other. Lighter surfaces reflect more light, that's why people where lighter colored clothes in the summer, it keeps them cooler.

# **Practical Science: Weather**

# **Tornado in a Bottle**

http://www.madaboutscience.com.au/store/index.php?main\_page=page&id=17

Tame the destructive force of a tornado by creating a mini one in a bottle.

### What you will need:

- •Empty plastic bottle with lid. Any size, 500ml works well
- •Two drops of liquid detergent (clear detergent works best)
- Teaspoon of glitter (optional)
- Food colouring (optional)

### What to do:

- 1. Almost fill the plastic bottle with cold tap water.
- 2. Add the liquid detergent.
- 3. Add glitter to the bottle.
- 4. Screw on the cap tightly.
- 5. Hold the bottle by the neck and turn it upside down. Rotate the bottle in a circular motion hard and fast. When you stop rotating a mini-tornado should form inside the bottle. Some find it easier to hold the bottle horizontally and then with a hard flick of the wrist flip it upside down. It may take several goes before you get it right all part of the fun.

Note: add a small amount of food dye for a colourful effect, or some tiny animal toys and watch them swirl in the vortex. Coloured lamp oil makes just the vortex coloured.

### How does it work?

Most people encounter their first vortex as bath water drains from the bathtub. A vortex is a type of motion that causes liquids and gases to swirl around a center line. In this experiment you have created a water vortex by rotating the bottle. The vortex looks like a tornado in the bottle and is very similar to the effect you see with a real tornado except the medium is water as opposed to air.

For a longer lasting tornado in a bottle check out our vortex valves!

# **Art Year 3**

God is Protector Topic: Weather

**Biblical connection:** Humans build shelters for protection from storms, rain and sun. God is our protection from the storms of life.

**Bible art as a wall display:** Mark 4:39 Jesus said, "Peace, be still," to the storm and the storm stopped.

OR, the wise and foolish builders, Matthew 7:24-27, with caption, "To stay safe, build your life on the rock."

# Drawing, painting and collage

Create a series of weather pictures, for all different types of weather.

## Construction

Make a model of a house that would stand strong in a storm.

# **Thinking Skills Protector Yr 3**

# Weather and Seasons 1

Draw a fishing rod.

Now redesign it by using the following steps:

B - make one part bigger

A - add something extra

R – **replace** one part with something else

## Weather and Seasons 2

Create a new product by combining these two things:

A raincoat and a sun hat

# Weather and Seasons 3

Name 5 things you would NEVER use in winter.

# Weather and Seasons 4

What if summer did not exist.

Give some consequences.

# Weather and Seasons 5

People should not be allowed out in the summer sun unless they are wearing a hat.

Give 3 good points and 3 bad points for this idea.

# Weather and Seasons 6

Work out 3 things this picture could represent in the story of Noah and his family.



# Thinking Skills Protector Yr 3

923	-0
Weather and Seasons 7  Make an acrostic poem using the name of one of the seasons.	Weather and Seasons 8  Design something new to keep the rain off you when riding a bike.
Weather and Seasons 9  Give 10 different uses for melted ice-creams.	Weather and Seasons 10  Name 5 things that swimming pools and beds have in common.  e.g. you can dive into both of them.
Weather and Seasons 11  Make an unusual hat will give you shade in summer.	Weather and Seasons 12  Draw 3 pictures of some things you could make at the beach.